=>Testing the current file.... screen

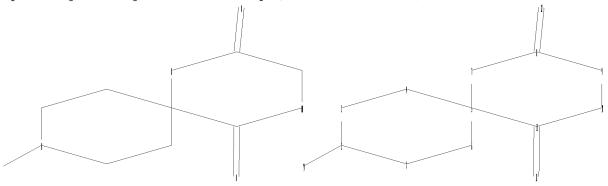
ENTER SCREEN EXPRESSION OR (END):end

=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L1 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\10527435 (a).str



```
chain nodes :
12  13
ring nodes :
1  2  3  4  5  6  7  8  9  10  11
ring/chain nodes :
14
chain bonds :
2-14  8-12  11-13
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  5-7  5-11  7-8  8-9  9-10  10-11
exact/norm bonds :
2-14  8-12  11-13
exact bonds :
1-2  1-6  2-3  3-4  4-5  5-6  5-7  5-11  7-8  8-9  9-10  10-11
isolated ring systems :
containing 1 :
```

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:CLASS 13:CLASS 14:CLASS

L2 STRUCTURE UPLOADED

=> que L2 NOT L1

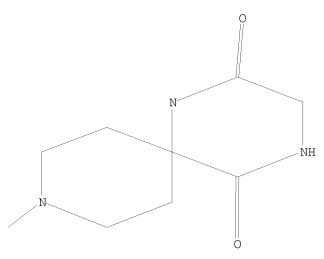
L3 QUE L2 NOT L1

=> d 13

L3 HAS NO ANSWERS

L1 SCR 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L2 STR



=> s 13 sss sam

SAMPLE SEARCH INITIATED 23:35:39 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 96 TO ITERATE

100.0% PROCESSED 96 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1333 TO 2507
PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L2 NOT L1

=>Testing the current file.... screen

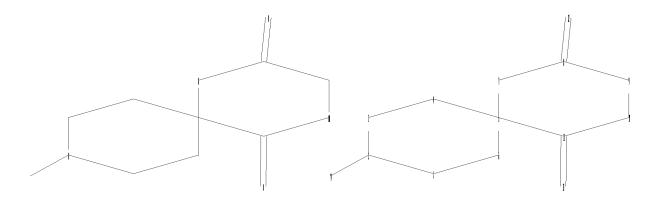
ENTER SCREEN EXPRESSION OR (END):end

=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L5 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\10527435 (b).str



```
chain nodes :
12  13
ring nodes :
1  2  3  4  5  6  7  8  9  10  11
ring/chain nodes :
14
chain bonds :
2-14  8-12  11-13
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  5-7  5-11  7-8  8-9  9-10  10-11
exact/norm bonds :
2-14  5-7  5-11  7-8  8-9  8-12  9-10  10-11  11-13
exact bonds :
1-2  1-6  2-3  3-4  4-5  5-6
isolated ring systems :
containing 1 :
```

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:CLASS 13:CLASS 14:CLASS

L6 STRUCTURE UPLOADED

=> que L6 NOT L5

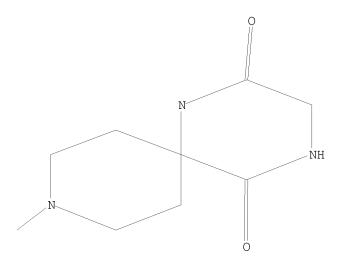
L7 QUE L6 NOT L5

=> d 17

L7 HAS NO ANSWERS

L5 SCR 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L6 STR



Structure attributes must be viewed using STN Express query preparation. L7 $$\operatorname{QUE}$$ L6 NOT L5

50 ANSWERS

=> s 17 sss sam

SAMPLE SEARCH INITIATED 23:38:31 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 537 TO ITERATE

100.0% PROCESSED 537 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 9350 TO 12130

PROJECTED ANSWERS: 4524 TO 6516

L8 50 SEA SSS SAM L6 NOT L5

=> =>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1839

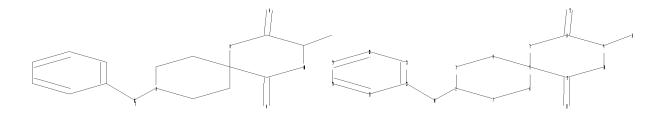
L9 SCREEN CREATED

=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L10 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\10527435 (c).str



```
chain nodes :
12 13 16
ring nodes :
ring/chain nodes :
chain bonds :
2-14 8-12 9-16 11-13 14-22
ring bonds :
1-2 \quad 1-6 \quad 2-3 \quad 3-4 \quad 4-5 \quad 5-6 \quad 5-7 \quad 5-11 \quad 7-8 \quad 8-9 \quad 9-10 \quad 10-11 \quad 17-18 \quad 17-22 \quad 18-19
19-20 20-21 21-22
exact/norm bonds :
5-7 5-11 7-8 8-9 8-12 9-10 10-11 11-13
exact bonds :
1-2 1-6 2-3 2-14 3-4 4-5 5-6 9-16 14-22
normalized bonds :
17-18 17-22 18-19 19-20 20-21 21-22
isolated ring systems :
containing 1 : 17 :
```

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:CLASS 13:CLASS 14:CLASS 16:CLASS 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom

L11 STRUCTURE UPLOADED

=> que L11 AND L9 NOT L10

L12 QUE L11 AND L9 NOT L10

=> d 112

L12 HAS NO ANSWERS

L9 SCR 1839

L10 SCR 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L11 STR

10/527,435

50 ANSWERS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation. L12 QUE L11 AND L9 NOT L10

 \Rightarrow s 112 sss sam

SAMPLE SEARCH INITIATED 23:47:20 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED -236 TO ITERATE

100.0% PROCESSED 236 ITERATIONS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

COMPLETE BATCH

PROJECTED ITERATIONS: 3799 TO 5641 PROJECTED ANSWERS: 1503 TO 2737

L13 50 SEA SSS SAM L11 AND L9 NOT L10

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

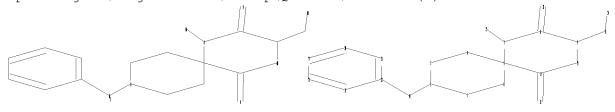
=> screen 1839

SCREEN CREATED L14

=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L15 SCREEN CREATED

Uploading C:\Program Files\Stnexp\Queries\10527435 (d).str



chain nodes :

12 13 16 23 24

ring nodes :

```
ring/chain nodes :
14
chain bonds :
2-14 7-23 8-12 9-16 11-13 14-22 16-24
ring bonds :
1-2 \quad 1-6 \quad 2-3 \quad 3-4 \quad 4-5 \quad 5-6 \quad 5-7 \quad 5-11 \quad 7-8 \quad 8-9 \quad 9-10 \quad 10-11 \quad 17-18 \quad 17-22 \quad 18-19
19-20 20-21 21-22
exact/norm bonds :
5-7 5-11 7-8 7-23 8-9 8-12 9-10 10-11 11-13 16-24
exact bonds :
1-2 1-6 2-3 2-14 3-4 4-5 5-6 9-16 14-22
normalized bonds :
17-18 17-22 18-19 19-20 20-21 21-22
isolated ring systems :
containing 1 : 17 :
Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:CLASS 14:CLASS 16:CLASS 17:Atom 18:Atom 19:Atom 20:Atom
21:Atom 22:Atom 23:CLASS 24:CLASS
L16
      STRUCTURE UPLOADED
=> que L16 AND L14 NOT L15
L17 QUE L16 AND L14 NOT L15
=> d 117
L17 HAS NO ANSWERS
L14
                SCR 1839
L15
                SCR 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047
L16
                STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
Structure attributes must be viewed using STN Express query preparation.
L17
                QUE L16 AND L14 NOT L15
=> s 117 sss sam
SAMPLE SEARCH INITIATED 23:52:08 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 89 TO ITERATE
100.0% PROCESSED
                     89 ITERATIONS
                                                                 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH **COMPLETE**
PROJECTED ITERATIONS:
                              1214 TO
PROJECTED ANSWERS:
                               704 TO
                                         1616
             50 SEA SSS SAM L16 AND L14 NOT L15
L18
```

=> => s 117 sss ful

FULL SEARCH INITIATED 23:52:58 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1631 TO ITERATE

100.0% PROCESSED 1631 ITERATIONS

1022 ANSWERS

SEARCH TIME: 00.00.01

L19 1022 SEA SSS FUL L16 AND L14 NOT L15

=> => s 119

L20 59 L19

=> d 120 1-59 bib,ab,hitstr

- L20 ANSWER 1 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
- 2007:1165535 CAPLUS ΑN
- 147:446637 DN
- V3 loop truncations in HIV-1 envelope impart resistance to coreceptor ΤI inhibitors and enhanced sensitivity to neutralizing antibodies
- ΑU Laakso, Meg M.; Lee, Fang-Hua; Haggarty, Beth; Agrawal, Caroline; Nolan, Katrina M.; Biscone, Mark; Romano, Josephine; Jordan, Andrea P. O.; Leslie, George J.; Meissner, Eric G.; Su, Lishan; Hoxie, James A.; Doms, Robert W.
- Department of Microbiology, University of Pennsylvania School of Medicine, CS
- Philadelphia, PA, USA PLoS Pathogens (2007), 3(8), 1118-1128 SO CODEN: PPLACM: ISSN: 1553-7374 Public Library of Science
- ΡВ
- Journal; (online computer file) DT
- LA English
- AΒ The V1/V2 region and the V3 loop of the human immunodeficiency virus type I (HIV-1) envelope (Env) protein are targets for neutralizing antibodies and also play an important functional role, with the V3 loop largely determining

whether a virus uses CCR5 (R5), CXCR4 (X4), or either coreceptor (R5X4) to infect cells. While the sequence of V3 is variable, its length is highly conserved. Structural studies indicate that V3 length may be important for interactions with the extracellular loops of the coreceptor. Consistent with this view, genetic truncation of the V3 loop is typically associated with loss of Env function. We removed approx. one-half of the ${\rm V3}$ loop from three different HIV-1 strains, and found that only the Env protein from the R5X4 strain R3A retained some fusion activity. Loss of V1/V2 ($\Delta \text{V1/V2}$) was well tolerated by this virus. Passaging of virus with the truncated V3 loop resulted in the derivation of a virus strain that replicated with wild-type kinetics. This virus, termed TA1, retained the V3 loop truncation and acquired several adaptive changes in gp120 and gp41. TA1 could use CCR5 but not CXCR4 to infect cells, and was extremely sensitive to neutralization by HIV-1 pos. human sera, and by antibodies to the CD4 binding site and to CD4-induced epitopes in the bridging sheet region of gp120. In addition, TA1 was completely resistant to CCR5 inhibitors, and was more dependent upon the N-terminal domain of CCR5, a region of the receptor that is thought to contact the bridging sheet of gp120 and the base of the V3 loop, and whose conformation may not be greatly affected by CCR5 inhibitors. These studies suggest that the V3 loop protects HIV from neutralization by antibodies prevalent in infected humans, that CCR5 inhibitors likely act by disrupting interactions between the V3 loop and the coreceptor, and that altered use of CCR5 by HIV-1associated with increased sensitivity to changes in the N-terminal domain can be linked to high levels of resistance to these antiviral compds.

461443-59-4, Aplaviroc ΙT

> RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(V3 loop truncations in HIV-1 envelope impart resistance to coreceptor inhibitors and enhanced sensitivity to neutralizing antibodies)

RN 461443-59-4 CAPLUS

Benzoic acid, 4-[4-[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

```
L20 ANSWER 2 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
     2007:1064150 CAPLUS
AN
     147:385768
DN
     Diketo acids with nucleobase scaffolds: anti-HIV replication inhibitors
ΤI
     targeted at HIV integrase in combination therapy
IN
     Nair, Vasu; Chi, Guochen; Uchil, Vinod R.
PA
     University of Georgia Research Foundation, Inc., USA
     PCT Int. Appl., 110pp.
SO
     CODEN: PIXXD2
DT
     Patent
     English
LA
FAN.CNT 1
                                    DATE
                            KIND
                                                 APPLICATION NO.
     PATENT NO.
                                                  ______
                            ____
                                                 WO 2007-US6245
     WO 2007106450
                             A2
                                    20070920
                                                                            20070309
PΙ
          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
              CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN,
              CL, CH, CH, GI, MN, MK, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
          RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,
               GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
               BY, KG, KZ, MD, RU, TJ, TM
PRAI US 2006-781520P
                            P
                                    20060310
     MARPAT 147:385768
OS
     A new class of diketo acids constructed on nucleobase scaffolds, e.g., I
AΒ
     [R1, R2 = (un)substituted CH2Ph whereby Ph is substituted with 1 to 3
     substituents selected from halogen, OH, OMe, Me, Et, Pr, CF3, CH2Rb; Rb =
     5- or 6-membered heteroarom.; R3 = H, C1-6-alkyl, halogen, (un)susbtituted
     CH2Ph, (un) substituted SPh, whereby Ph is substituted with 1 to 3
     substituents selected from halogen, OH, OMe, Me, Et, Pr, CF3; R4 = CO2R; R
     = H, C1-6-alkyl] and II, designed as inhibitors of HIV replication through
     inhibition of HIV integrase, is described. Thus, 4-(1,3-dibenzyl-1,2,3,4-
     tetrahydro-2,4-dioxopyrimidin-5-yl)-2-hydroxy-4-oxo-2-butenoic acid (III)
     was prepd from 5-acetyluracil via dibenzylation with PhCH2Br in DMF containing
     K2CO3, condensation with MeO2CCO2Me in THF containing NaOCMe3, and acid
     hydrolysis with aqueous HCl in dioxane. These compds. are useful in the
     prevention or treatment of infection by HFV and in the treatment of AIDS
     and ARC, either as the compds., or as pharmaceutically acceptable salts,
     with pharmaceutically acceptable carriers, in combination with antivirals,
     immunomodulators, antibiotics, vaccines, and other therapeutic agents,
     especially other anti-HIV compds. (including other anti-HIV integrase agents),
     which can be used to create combination anti- HIV cocktails as disclosed
     herein. Methods of treating AIDS and ARC and methods of treating or
     preventing infection by HIV are also described. Compds. of the present
     application include those of I and include tautomers, regioisomers,
     geometric isomers, and where applicable, optical isomers thereof, and
     pharmaceutically acceptable salts thereof, wherein the nucleobase scaffold
     and R groups are as otherwise defined in the specification. These are
     combined with any number of typical other anti-HIV agents to provide an
     effective treatment modality for HIV infections, including AIDS and ARC.
     The bioactivity of III was determined [IC50 = 0.02 \mu\text{M}; CC50 = >2000 \mu\text{M};
```

Therapeutic Index = >10,000 vs. HIV integrase in vitro].

IT 461443-59-4, AK602

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(novel diketo acids constructed on nucleobase scaffolds as inhibitors of HIV replication through inhibition of HIV integrase useful in prevention and combination therapy of infections)

RN 461443-59-4 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

```
L20 ANSWER 3 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
      2007:941806 CAPLUS
ΑN
DN
      147:292172
      Sequential use of viral entry inhibitors to prevention the infection of T
ΤI
      lymphocytes by human immunodeficiency virus
IN
      Duensing, Thomas; Fung, Sek Chung Michael; Stanley, Lewis
PA
      Tanox, Inc., USA
      PCT Int. Appl., 42pp.
SO
      CODEN: PIXXD2
DT
      Patent
      English
LA
FAN.CNT 1
                                          DATE
                               KIND
                                                         APPLICATION NO.
      PATENT NO.
                                                                                        DATE
                                 ____
                                                          _____
      WO 2007094983
                                  A2
                                          20070823
                                                          WO 2007-US2991
                                                                                        20070203
PΙ
                                 A3
                                          20071206
      WO 2007094983
           W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DM, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN,
           GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, RY
                 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
                 KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA
                             P
PRAI US 2006-764840P
                                       20060203
      US 2006-837975P
                                  Ρ
                                          20060816
      The present invention is based upon the surprising discovery that exposure
AΒ
      of a non-resistant human immunodeficiency virus (HIV) to a first entry
      inhibitor, such as an anti-CD4 antibody or a co-receptor inhibitor, which
      like all current HIV drugs selects for mutations that result in a
      resistant HIV, surprisingly results in HIV viruses much more susceptible
      to neutralization by a second entry inhibitor, such as soluble CD4 (sCD4) or
      an HIV gp41 inhibitor. Therefore, the present invention provides methods
      and compns. for inhibiting HIV-I infection in a subject that overcomes the
      problem of drug resistance.
ΙT
      461443-59-4
      RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
           (as HIV entry inhibitor; sequential use of viral entry inhibitors to
          prevention infection of T lymphocytes by human immunodeficiency virus)
RN
      461443-59-4 CAPLUS
      Benzoic acid, 4-[4-[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-
CN
```

dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

```
L20 ANSWER 4 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
      2007:874552 CAPLUS
AN
DN
     147:257932
     Cationic steroid antimicrobial compositions and methods of use
TI
IN
      Savage, Paul B.; Unutmaz, Derya
PΑ
      Brigham Young University, USA; Vanderbilt University
SO
      PCT Int. Appl., 111pp.
      CODEN: PIXXD2
DT
      Patent
LA
      English
FAN.CNT 1
                                        DATE
      PATENT NO.
                             KIND
                                                     APPLICATION NO.
                                                  ····
                                        TRANSPORTER
                             ____
                                     20070809 WO 2007-US2794
20071101
     WO 2007089907 A2
                                                                                  20070131
PΙ
          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN,
          GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY
                GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
                KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA
      US 2007190067 A1 20070816 US 2007-669785
                                                                                  20070131
                              Р
PRAI US 2006-763999P
                                       20060201
     MARPAT 147:257932
OS
      Steroids, such as I [R = (CH2)mOH, m = 0, 1, 2, 3, (CH2)3NH2, (CH2)3OSO3H,
AΒ
      (CH2)3O(CH2)3NH2, (CH2)3O(CH2)nMe, n = 0, 2, 4, 7, (CH2)3NH(CH2)7Me,
      (CH2)3NH(CH)3NH2], were prepared for therapeutic use in cationic steroid
      antimicrobial compns. which decrease or inhibit human immunodeficiency
      virus (HIV) infection or pathogenesis (e.g., illness) of a cell in vitro,
      ex vivo or in vivo, a symptom or pathol. associated with human
      immunodeficiency virus (HIV) infection or pathogenesis (e.g., illness) in
      vitro, ex vivo or in vivo, or an adverse side effect of human
      immunodeficiency virus (HTV) infection or pathogenesis (e.g., illness) in
      vitro, ex vivo or in vivo. Thus, steroid amines I [R = (CH)30(CH2)7Me,
      (CH2)30H] were via a multistep synthetic sequence starting from Me
      cholate, allyl bromide and octyl bromide. The prepared cationic steroids
      were tested for inhibition of HIV and were claimed for therapeutic use in
      combination with a protease inhibitor, a reverse transcriptase inhibitor,
      a virus fusion inhibitor or a virus entry inhibitor.
      461443-59-4, AK 602
ΙT
      RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
          (preparation of cationic steroid antimicrobial agents derived from cholic
          acid and analogs for therapeutic use in the treatment of HIV infection)
      461443-59-4 CAPLUS
RN
CN
      Benzoic acid, 4-[4-[(3R)-1-buty1-3-[(R)-cyclohexylhydroxymethyl]-2,5-
      dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)
```

10/527,435

L20 ANSWER 5 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2007:848300 CAPLUS

DN 147:313878

TI CCR5 inhibitors: promising yet challenging

AU Clotet, Bonaventura

CS AIDS Care Unit and irsiCaixa Retrovirology Laboratory, Hospital Germans Trias i Pujol, Universitat Autonoma de Barcelona, Badalona, Spain

SO Journal of Infectious Disease's (2007), 19 (2), 178-180 CODEN: JIDIAQ; ISSN: 0022-1899

PB University of Chicago Press

DT Journal; General Review

LA English

AΒ A review. The research of Gulick et al. (2007) entitled "Phase 2 study of the safety and efficacy of vicriviroc, a CCR5 inhibitor, in HIV-1-infected, treatment-experienced patients: AIDS Clin. Trials Group 5211" is reviewed with commentary and refs. Previous studies conducted with maraviroc plus optimized background therapy (OBT) in a treatment-experienced population, harboring only CCR5 tropic virus, have shown significantly superior virol. control and increases in CD4 cell count compared with placebo plus OBT. Gulick et al. also reported a potent virol. suppression through $24~\mathrm{wk}$, further supporting the anti-HIV-1 activity of the CCR5 inhibitor family. However, a slightly larger number of malignancies in antiretroviral (ARV)-experienced subjects receiving an optimized ARV regimen (OR) plus vicriviroc than in those treated with an OR plus placebo were observed These findings helped to clarify the role of CCR5 entry inhibitors in HIV therapeutics.

IT 461443-59-4, Aplaviroc

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(chemokine receptor 5 inhibitor aplaviroc might be effective in patient infected with human immunodeficiency virus)

RN 461443-59-4 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L20 ANSWER 6 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
      2007:845813 CAPLUS
ΑN
DN
      147:227133
      Synergistic compositions for treating HIV
ΤI
IN
      Ji, Changhua; Sankuratri, Suryanarayana
PA
      F. Hoffmann-La Roche A.-G., Switz.
SO
      PCT Int. Appl., 42pp.
      CODEN: PIXXD2
DT
      Patent
LA
      English
FAN.CNT 1
      PATENT NO.
                                KIND
                                         DATE
                                                         APPLICATION NO.
                                                                                       DATE
                                ____
                                         20070802
      WO 2007085567
                                 A2
                                                         WO 2007-EP50527
                                                                                       20070119
PΙ
      WO 2007085567
                                 А3
                                         20071011
           W: AE, AG, AL, AM, AS, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
                GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN,
                KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK,
           RP, RR, RZ, LA, LC, LR, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SI, SZ, TZ, UG, ZM, ZW, AM, AZ, BY
                GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
                KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA
PRAI US 2006-772094P
                                P
                                         20060130
      MARPAT 147:227133
OS
      Synergistic pharmaceutical compns. for treating or preventing HIV-1
AΒ
      infections comprising anti-CCR5 monoclonal antibodies and CCR5
      antagonists, viral fusion inhibitors or viral attachment inhibitors are
      disclosed. The compns. exhibit significant greater activity than is
      anticipated from the activity of either component alone. Also provided
      are methods for treating or preventing HIV-1 using the same.
ΙT
      461443-59-4, ONO 4128
      RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
      (Biological study); USES (Uses)
          (synergistic compns. for treating HIV-1 infections using anti-CCR5
          monoclonal antibodies and CCR5 antagonists and viral fusion and
          attachment inhibitors)
RN
      461443-59-4 CAPLUS
      Benzoic acid, 4-[4-[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-
CN
      dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)
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10/527,435

- L20 ANSWER 7 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
- AN 2007:804429 CAPLUS
- DN 147:313780
- TI CCR5 antagonists: from discovery to clinical efficacy
- AU Pulley, Shon R.
- CS Lilly Corporate Center, Discovery Chemistry & Research Technologies, Eli Lilly and Company, Indianapolis, IN, 46285, USA
- SO Chemokine Biology--Basic Research and Clinical Application (2007), Volume 2, 145-163. Editor(s): Moser, Bernhard; Letts, Gordon L. Neote, Kuldeep. Publisher: Birkhaeuser Verlag, Basel, Switz. CODEN: 69HVZO
- DT Conference; General Review
- LA English
- AB A review on CCR5 antagonists prior to human efficacy studies and CCR5 antagonists reaching human efficacy studies. The important role of CCR5 in a number of disease states warrants further pursuit of safe and efficacious CCR5 antagonists. The results from ongoing AIDS clin. trials and planned trials in immune mediated diseases will ultimately reveal the therapeutic utility of CCR5 antagonists.
- RN 461443-59-4 CAPLUS
- CN Benzoic acid, 4-[4-[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

Absolute stereochemistry.

RE.CNT 78 THERE ARE 78 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 8 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2007:748017 CAPLUS

DN 147:291401

TI CCR5 small-molecule antagonists and monoclonal antibodies exert potent synergistic antiviral effects by cobinding to the receptor

AU Ji, Changhua; Zhang, Jun; Dioszegi, Marianna; Chiu, Sophie; Rao, Eileen; de Rosier, Andre; Cammack, Nick; Brandt, Michael; Sankuratri, Surya

CS Department of Viral Diseases, Roche Palo Alto, Palo Alto, CA, USA

SO Molecular Pharmacology (2007), 72(1), 18-28 CODEN: MOPMA3; ISSN: 026-895X

PB American Society for Pharmacology and Experimental Therapeutics

DT Journal

LA English

A panel of four CCR5 monoclonal antibodies (mAbs) recognizing different AΒ epitopes on CCR5 was examined in CCR5-mediated cell-cell fusion assay, alone or in combination with a variety of small mol. CCR5 antagonists. Although no antagonism was observed between any of the CCR5 inhibitors, surprisingly potent synergy was observed between CCR5 mAbs and antagonists, and the synergistic activity was confirmed in other antiviral assays. Strong synergy was also observed between CCR5 inhibitors and the human immunodeficiency virus (HIV) fusion inhibitor enfuvirtide. There was no synergy observed between small mol. CCR5 inhibitors; however, potent synergy was observed between mAbs recognizing different parts of CCR5. In all synergistic combinations, greater synergy was achieved at higher percent inhibition levels. A neg. correlation was found between the degree of synergy between the two classes of CCR5 inhibitors and the ability to compete each other for binding to the receptor. For example, the greatest synergy, observed between the mAb ROAb13 and the small mol. inhibitor maraviroc, did not interfere with binding to CCR5 for either inhibitor, whereas no synergy was found between mAb 45523 and maraviroc, which do compete for binding to CCR5. In addition, in contrast to a recent report, the CCR5 inhibitors tested here were found to inhibit the same stage of HIV entry. Based on the data presented here, we hypothesize that CCR5 inhibitors exert synergistic antiviral actions through a cobinding mechanism.

IT 461443-59-4, Aplaviroc

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(CCR5 small-mol. antagonists and monoclonal antibodies exert potent synergistic antiviral effects by cobinding to the receptor)

RN 461443-59-4 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

Absolute stereochemistry.

RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
L20 ANSWER 9 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
      2007:642553 CAPLUS
AN
DN
      147:72745
      Preparation of novel spiropiperidine compounds for the modulation of
ΤI
      chemokine receptor activity
IN
      Moinet, Christophe; Courchesne, Marc
PA
      Virochem Pharma Inc., Can.
      PCT Int. Appl., 81pp.
SO
      CODEN: PIXXD2
DT
      Patent
      English
LA
FAN.CNT 1
                                       DATE
                              KIND
                                                    APPLICATION NO.
      PATENT NO.
                                                     _____
                              ____
                                                  WO 2006-CA1981
                                      20070614
      WO 2007065256
                                                                                20061205
PΙ
                               Α1
          W: AE, AG, AL, AM, AR, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
               CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK,
               MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO,
          MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PI, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, IS, MW, MZ, NA, SD, SI, SZ, TZ, UG, ZM, ZW, AM, AZ, BY
                GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
               KG, KZ, MD, RU, TJ, TM
PRAI US 2005-742545P
                              Ρ
                                       20051206
     MARPAT 147:72745
OS
      The title compds. I [ring containing W, X, Y and Z = II, III, etc.; R1 =
AΒ
      NR6C(0)R7, NR6C(0)OR7, etc.; R2 = alkyl, alkenyl, aryl, etc.; R3 = H,
      alkyl, aryl; R4, R5, R51, R52 = H, alkyl, aryl, etc.; R6 = H, alkyl,
      alkenyl, alkynyl; R7 = H, alkyl, alkenyl, aryl, etc.], useful for the
      modulation of CCR5 chemokine receptor activity, particularly in the
      prevention or treatment of inflammatory diseases, immunoregulatory
      diseases, organ transplantation reactions and infectious diseases such as
      HIV infections, were prepared and claimed. E.g., a multi-step synthesis of
      (S)-IV, starting from tert-Bu 2-oxo-1-oxa-3,8-diaza-spiro[4.5]decane-8-
      carboxylate and 4-methoxybenzyl chloride, was given. Compds. I have been
      found to have activity in binding to the CCR5 receptor, generally with an
      IC50 value of less than 25 \mu M. Certain compds. I have also been tested
      in an assay for HIV activity and generally having an IC50 value of less
      than 1 \muM.
ΤТ
      461443-59-4, GW873140
      RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
      (Biological study); USES (Uses)
          (codrug; preparation of novel spiropiperidine compds. as chemokine receptor
          modulators useful in treatment and prevention of diseases)
RN
      461443-59-4 CAPLUS
      Benzoic acid, 4-[4-[(3R)-1-buty1-3-[(R)-cyclohexylhydroxymethyl]-2,5-
CN
      dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)
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RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/527,435

- L20 ANSWER 10 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
- AN 2007:502501 CAPLUS
- TI Assessment of cryopreserved hepatocytes as an alternative to fresh hepatocytes for comparative interspecies metabolism studies with suitable acceptance criteria
- AU Cheng, Zigiang; Herron, Christine E.; Bowers, Gary; de Serres, Mark
- CS Department of World-wide Drug Metabolism and Pharmacokinetics, GlaxoSmithKline, Research Triangle Park, NC, 27709, USA
- SO Drug Metabolism Letters (2007), 1(2), 109-120 CODEN: DMLRBM; ISSN: 1872-3128
- PB Bentham Science Publishers Ltd
- DT Journal
- LA English
- AB Fresh hepatocytes have been the choice for interspecies comparative drug metabolism studies. Cryopreserved hepatocytes represent a readily available alternative when combined with acceptance limits based on the metabolic turnover of 7-ethoxycoumarin. Results for the ten NCEs examined show that the metabolites formed were strongly correlated in fresh and cryopreserved hepatocytes.
- IT INDEXING IN PROGRESS
- IT 461443-59-4, GW 873140
 - RL: BSU (Biological study, unclassified); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses) (14C-labeled; assessment of cryopreserved hepatocytes as an alternative to fresh hepatocytes for comparative interspecies metabolism studies with suitable acceptance criteria)
- RN 461443-59-4 CAPLUS
- CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L20 ANSWER 11 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
      2007:329882 CAPLUS
ΑN
      146:351292
DN
      Use of indirubin and its derivatives in the treatment of HIV infection and
TI
      heart failure
IN
      Redfield, Robert; Heredia, Alonso; Davis, Charles E.
PA
      University of Maryland Biotechnology Institute Off. of Research
      Admin/Tech. Dev., USA
SO
      PCT Int. Appl., 36pp.
      CODEN: PIXXD2
DT
      Patent
T.A
      English
FAN.CNT 1
                                          DATE
                                                        APPLICATION NO.
      PATENT NO.
                               KIND
                                                                                       DATE
                                                     WO 2006-US35559 20060912
                                          zereteren - - - - -
                               ____
      WO 2007033208
                                A2
                                        /20070322
РΤ
           2007033208

AZ 20070322 WO 2006-US35559 20060912

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EF, ES, ET, ED, GB, CD, UU, TE,
           RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
                 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
                KG, KZ, MD, RU, TJ, TM
PRAI US 2005-716097P
                                Р
                                      20050912
      Indirubin and its derivs. are described for reduction of replication of human
      immunodeficiency virus. Indirubin and its derivs. are also described for
      reducing the effects of heart failure, by administration of indirubin or a
      functionally active derivative thereof to modify cardiac muscle cell
      hypertrophy. Indirubin and its functional derivs. may also be employed in
      antiviral combination therapy compns. containing therapeutically effective
      chimeric polypeptides containing a virus coat polypeptide sequence and a viral
      receptor polypeptide sequence wherein the virus coat polypeptide sequence
      and the viral receptor polypeptide sequence are linked and exhibit
      ligand/receptor binding affinity.
ΙT
      461443-59-4, AK602 461443-59-4D, AK 602, analogs
      RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
      (Biological study); USES (Uses)
           (indirubin and derivs. for treatment of HIV infection and heart
          failure, and use with other agents)
      461443-59-4 CAPLUS
RN
      Benzoic acid, 4-[4-[(3R)-1-buty1-3-[(R)-cyclohexylhydroxymethyl]-2,5-
CN
      dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)
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RN 461443-59-4 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

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L20 ANSWER 12 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
     2007:287045 CAPLUS
AN
DN
     146:288407
     Chloroquine combination drugs and methods for their synthesis
ΤI
IN
     Kosak, Kenneth M.
PA
SO
     U.S. Pat. Appl. Publ., 48pp., Cont.-in-part of U.S. Ser. No. 323,389,
     abandoned.
     CODEN: USXXCO
DT
     Patent
LA
     English
FAN.CNT 2
                           KIND
                                     DATË
                                                  APPLICATION NO.
     PATENT NO.
                                                                             DATE
                            ____
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                                     ,
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     US 2007060499
                                     20070315
                                                  US 2006-360111
                                                                             20060222
PΙ
                             Α1
     WO 2007040469
                             Α2
                                     20070412
                                                  WO 2005-US33310
                                                                             20050915
     WO 2007040469
                             А3
                                    20070712
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               YU, ZA, ZM, ZW
          RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
               IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
               CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
              GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA
     US 2007166281
                                    ´20070719`
                                                  US 2007-709965
                             Α1
                                                                             20070222
                             A2
PRAI WO 2005-US33310
                                    20050915
                             В2
     US 2005-323389
                                     20051229
     US 2004-923112
                             A2
                                     20040821
     US 2006-360111
                             Α2
                                    20060222
     This invention discloses compns. of/chloroquine-coupled active agents,
AΒ
     including methods for their preparation. The prior art has shown that
     chloroquines given as free drug in high enough concentration, enhances the
     release of various agents from cellular endosomes into the cytoplasm. The
     purpose of these compns. is to provide a controlled amount of chloroquine at
     the same site where the active agent is delivered, thereby reducing the
     overall dosage needed. The compns. comprise a chloroquine substance
     coupled to an active agent directly or through a variety of pharmaceutical
     carrier substances. The carrier substances include polysaccharides,
     synthetic polymers, proteins, micelles and other substances for carrying
     and releasing the chloroquine compns. in the body for therapeutic effect.
     The compns. can also include a biocleavable linkage for carrying and
     releasing active agents for therapeutic or other medical uses. The
     invention also discloses carrier compns. that are coupled to targeting
     mols. for targeting the delivery of chloroquine substances and active
     agents to their site of action.
ΙT
     461443-59-4, Aplaviroc
     RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
         (chloroquine combination drugs and methods for their synthesis)
RN
     461443-59-4 CAPLUS
CN
     Benzoic acid, 4-[4-[(3R)-1-buty1-3-[(R)-cyclohexylhydroxymethy1]-2,5-
```

dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

- L20 ANSWER 13 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
- AN 2007:207313 CAPLUS
- DN 146:329986
- TI Reduced maximal inhibition in phenotypic susceptibility assays indicates that viral strains resistant to the CCR5 antagonist maraviroc utilize inhibitor-bound receptor for entry
- AU Westby, Mike; Smith-Burchnell, Caroline; Mori, Julie; Lewis, Marilyn; Mosley, Michael; Stockdale, Mark; Dorr, Patrick; Ciaramella, Giuseppe; Perros, Manos
- CS Pfizer Global Research and Development, Sandwich, UK
- SO Journal of Virology (2007), 81(5), 2359-2371 CODEN: JOVIAM; ISSN 0022-538X
- PB American Society for Microbiology
- DT Journal
- LA English
- AΒ Maraviroc is a CCR5 antagonist in clin. development as one of a new class of antiretrovirals targeting human immunodeficiency virus type 1 (HIV-1) coreceptor binding. We investigated the mechanism of HIV resistance to maraviroc by using in vitro sequential passage and site-directed mutagenesis. Serial passage through increasing maraviroc concns. failed to select maraviroc-resistant variants from some laboratory-adapted and clin. isolates of HIV-1. However, high-level resistance to maraviroc was selected from three of six primary isolates passaged in peripheral blood lymphocytes (PBL). The SF162 strain acquired resistance to maraviroc in both treated and control cultures; all resistant variants were able to use CXCR4 as a coreceptor. In contrast, maraviroc-resistant virus derived from isolates CC1/85 and RU570 remained CCR5 tropic, as evidenced by susceptibility to the CCR5 antagonist SCH-C, resistance to the CXCR4 antagonist AMD3100, and an inability to replicate in CCR5 $\Delta 32/\Delta 32$ PBL. Strain-specific mutations were identified in the V3 loop of maraviroc-resistant CC1/85 and RU570. The envelope-encoding region of maraviroc-resistant CC1/85 was inserted into an NL4-3 background. This recombinant virus was completely resistant to maraviroc but retained susceptibility to aplaviroc. Reverse mutation of gp120 residues 316 and 323 in the V3 loop (numbering from HXB2) to their original sequence restored wild-type susceptibility to maraviroc, while reversion of either mutation resulted in a partially sensitive virus with reduced maximal inhibition (plateau). The plateaus are consistent with the virus having acquired the ability to utilize maraviroc-bound receptor for entry. This hypothesis was further corroborated by the observation that a high concentration of maraviroc blocks the activity of aplaviroc against maraviroc-resistant virus.
- IT 461443-59-4, Aplaviroc
 - RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 - (reduced maximal inhibition in phenotypic susceptibility assays indicates that viral strains resistant to CCR5 antagonist maraviroc utilize inhibitor-bound receptor for entry)
- RN 461443-59-4 CAPLUS
- CN Benzoic acid, 4-[4-[(3R)-1-buty1-3-[(R)-cyclohexylhydroxymethy1]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
L20 ANSWER 14 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
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AN 2007:175576 CAPLUS

DN 146:258964

- TI Method for augmentation of intraepithelial and systemic exposure of therapeutic agents having substrate activity for cytochrome p450 enzymes and membrane efflux systems following vaginal and oral cavity administration
- IN Pauletti, Giovanni M.; Harrison, Donald C.; Desai, Kishorkumar J.
- PA USA
- SO U.S. Pat. Appl. Publ., 24pp., Cont.-in-part of U.S. Ser. No. 208,209. CODEN: USXXCO
- DT Patent
- LA English
- FAN.CNT 12

I AIV.		PATENT NO.					D	DATE			APPLICATION NO.					DATE		
PI	AU US	2007036834 765269 2003049302 6982091 2006002966 2007035515 2007035515				A1 B2 A1 B2		20070215 20030911 20030313 20060103		-	US 2006-522126 AU 2001-54192 US 2002-226667					20010703		
	US WO					A1 A2 A3		20060103 20060105 20070329 20070927		US 2005-208209 WO 2006-US36087								
			CN, GE, KR, MW, RU, UA, AT, IS, CF, GM,	CO, GH, KZ, MX, SC, UG, BE, IT, CG, KE,	CR, GM, LA, MY, SD, US, BG, LT, CI, LS,	CU, HN, LC, MZ, SE, UZ, CH, LU, CM,	CZ, HR, LK, NA, SG, VC, CY, LV, GA, MZ,	AU, DE, HU, LR, NG, SK, VN, CZ, MC, GN, NA,	DK, ID, LS, NI, SL, ZA, DE, NL, GQ, SD,	DM, IL, LT, NO, SM, ZM, DK, PL, GW,	DZ, IN, LU, NZ, SV, ZW EE, PT, ML, SZ,	EC, IS, LV, OM, SY, ES, RO, MR, TZ,	EE, JP, LY, PG, TJ, FI, SE, NE,	EG, KE, MA, PH, TM, FR, SI, SN,	ES, KG, MD, PL, TN, GB, SK, TD,	FI, KM, MG, PT, TR, GR, TR,	GB, KN, MK, RO, TT, HU, BF, BW,	GD, KP, MN, RS, TZ, IE, BJ, GH,
PRAI	US US US	KG, KZ, MD, 2001-315877P 2002-226667 2005-208209 2005-717680P 1998-76976				P A1 A2 P	ŕ	2001 2002 2005 2005 1998	0829 0821 0818 0915	un,	ы.,	OA.						

- AB The present invention relates to a method for augmentation of epithelial concentration and systemic exposure of therapeutic agents having a substrate affinity for cytochrome P 450 enzymes and membrane efflux transporter systems by using a vaginal or buccal drug delivery compns. and/or devices. Specifically, the invention relates to a method for augmentation of intraepithelial concentration and/or systemic bioavailability for delivery of anti-viral and/or anti-cancer therapeutic agents having a substrate affinity for cytochrome P 450 enzymes and membrane efflux systems by using a vaginal or buccal drug delivery of these drugs into the systemic circulation by delivering such drug to a subject in need thereof vaginally or buccally in an especially formulated composition increasing the drug's bioavailability by providing means for increasing the drug solubility and permeability through the vaginal or buccal mucosa.
- IT 461443-59-4, GSK 873140
 - RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (AK602; method for augmentation of intraepithelial and systemic exposure of therapeutic agents having substrate activity for cytochrome

P 450 enzymes and membrane efflux systems following vaginal and oral cavity administration)

RN 461443-59-4 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

```
L20 ANSWER 15 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
      2007:119657 CAPLUS
AN
DN
      146:182972
     Methods for reducing viral load in HIV-1-infected patients
TI
IN
      Olson, William C.; Maddon, Paul J.; Pevear, Daniel C.; Israel, Robert J.;
      Murga, Jose D.
PA
      Progenics Pharmaceuticals, Inc., USA
      PCT Int. Appl., 97pp.
SO
      CODEN: PIXXD2
DT
      Patent
      English
LA
FAN.CNT 1
                                     DATE
      PATENT NO.
                            KIND
                                                   APPLICATION NO.
                             ____
                                                   _____
                                     _____
                              A2
                                    20070201
                                                  NO 2006-US28565
                                                                             20060721
      WO 2007014114
РΤ
          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
               CN, CO, CR, CU, CX, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
               GE, GH, GM, HN, HR, HU, ID, LL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
          RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
               GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
               KG, KZ, MD, RU, TJ, TM
                                     /20070201
      US 2007026441
                          A1
                                                   US 2006-491330
                                                                              20060721
PRAI US 2005-702064P
                              Ρ
                                     20050722
      US 2005-701889P
                              Ρ
                                     20050723
                              Ρ
      US 2005-711528P
                                     20050826
                              Ρ
                                     X0050909,
      US 2005-715619P
AΒ
      The authors disclose a method for reducing viral load in an HIV-1-infected
      human subject. The method comprises the administration at a predefined
      intervals of (a) a humanized antibody designated PRO 140, or of (b) an
      anti-CCR5 receptor monoclonal antibody. The authors also disclose a
      treatment comprising the administration of (a) a monoclonal antibody which
      (i) binds to a CCR5 receptor on the surface of the subject's CD4+ cells
      and (ii) inhibits fusion of HIV-1 to CCR5+CD4+ cells, and (b) a
      non-antibody CCR5 receptor antagonist, in therapeutic amts.
ΙT
      461443-59-4, GW873140
      RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
         (with anti-CCR5 antibody for combination therapy in human
         immunodeficiency virus infection)
RN
      461443-59-4 CAPLUS
      Benzoic acid, 4-[4-[(3R)-1-buty1-3-[(R)-cyclohexylhydroxymethyl]-2,5-
CN
      dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)
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10/527,435

- L20 ANSWER 16 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
- 2007:81249 CAPLUS AΝ
- 146:329879 DN
- Spirodiketopiperazine-based CCR5 antagonists: Lead optimization from ΤI biologically active metabolite
- Nishizawa, Rena; Nishiyama, Toshihiko; Hisaichi, Katsuya; Matsunaga, ΑU Naoki; Minamoto, Chiaki; Habashita, Hiromu; Takaoka, Yoshikazu; Toda, Masaaki; Shibayama, Shiro; Tada, Hideaki; Saqawa, Kenji; Fukushima, Daikichi; Maeda, Kenji; Mitsuya, Hiroaki
- Medicinal Chemistry Research Laboratories, Ono Pharmaceutical Co. Ltd., CS Osaka, 618-8585, Japan
- SO Bioorganic & Medicinal Chemistry Letters (2007), $\tilde{N}(3)$, 727–731 CODEN: BMCLE8; ISSN: 0960-894X
- ΡВ Elsevier Ltd.
- Journal DT
- LA English
- CASREACT 146:329879 OS
- AΒ Hydroxylated derivs. were designed and synthesized based on the information of oxidative metabolites. Compds. derived from β -substituted (2R,3R)-2-amino-3-hydroxypropionic acid showed improved inhibitory activities against the binding of MIP-1 α to human CCR5, compared with the nonhydroxylated derivs. and the other isomers.
- ΙT 343277-06-5P 461022-95-7P RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 - (lead optimization from biol. active metabolite of spirodiketopiperazine-based CCR5 antagonists)
- RN 343277-06-5 CAPLUS
- 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-CN methylpropy1]-9-[(4-phenoxypheny1)methyl]-, hydrochloride (1:1), (3R)-(CA INDEX NAME)

Absolute stereochemistry.

● HC1

461022-95-7 CAPLUS RN

1, 4, 9-Triazaspiro [5.5] undecane-2, 5-dione, 1-buty1-3-[(R)-CN cyclohexylhydroxymethyl]-9-[(4-phenoxyphenyl)methyl]-, hydrochloride (1:1), (3R) - (CA INDEX NAME)

● HCl

IT 343272-98-0P 343272-99-1P 343277-02-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(lead optimization from biol. active metabolite of spirodiketopiperazine-based CCR5 antagonists)

RN 343272-98-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[(4-phenoxyphenyl)methyl]-, hydrochloride (1:1), (3S)-(CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline i-Pr & R & S & N \\ \hline O & Bu-n & OPh \end{array}$$

● HCl

RN 343272-99-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1S)-1-hydroxy-2-methylpropyl]-9-[(4-phenoxyphenyl)methyl]-, hydrochloride (1:1), (3R)-(CA INDEX NAME)

$$\begin{array}{c|c} OH & H & O \\ i-Pr & S & R & N \\ \hline & H & N & O \\ O & Bu-n & OPh \end{array}$$

● HCl

RN 343277-02-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1S)-1-hydroxy-2-methylpropyl]-9-[(4-phenoxyphenyl)methyl]-, hydrochloride (1:1), (3S)-(CA INDEX NAME)

Absolute stereochemistry.

● HCl

IT 461019-79-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(lead optimization from biol. active metabolite of spirodiketopiperazine-based CCR5 antagonists)

RN 461019-79-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-(phenylmethyl)-, (3R)- (CA INDEX NAME)

RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
L20 ANSWER 17 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
     2006:1353988 CAPLUS
ΑN
     146:75294
DN
     Antifugetactic agents for immune response enhancement
ΤI
ΙN
     Poznansky, Mark C.; Potts, John T., Jr.; Vianello, Fabrizio; Papeta,
PA
     The General Hospital Corporation, USA
     PCT Int. Appl., 92pp.
SO
     CODEN: PIXXD2
DT
     Patent
     English
LA
FAN.CNT 1
                                  DATE
                          KIND
                                              APPLICATION NO.
     PATENT NO.
                                                                      DATE
                                  _____
                                              _____
                          ____
     WO 2006137934
                           A2
                                  20061228
                                              WO 2005-US40218
                                                                       20051104
PΙ
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
              GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
              KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX,
             MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
              VN, YU, ZA, ZM, ZW
         RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
              IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
              CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
              GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
              KG, KZ, MD, RU, TJ, TM
     CA 2586765
                                  20061228
                                              CA 2005-2586765
                                                                       20051104
                           A 1
     EP 1814587
                           Α2
                                  20070808
                                              EP 2005-858305
                                                                       20051104
            AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
              IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL,
              BA, HR, MK, YU
PRAI US 2004-625733P
                           Ρ
                                  20041105
     WO 2005-US40218
                           \mathbb{W}
                                 20051104
AΒ
     This invention provides methods and compns. for modulating movement of
     eukaryotic cells with migratory capacity. More specifically, the
     invention provides anti-fugetactic agents and methods for the use thereof
     in enhancing an immune response. Stromal-derived factor-1 (SDF-1)
     mediated immune evasion of melanoma cells was abrogated by CXCR4
     antagonist AMD3100.
ΙT
     461443-59-4, AK602
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
         (antifugetactic agents for immune response enhancement)
RN
     461443-59-4 CAPLUS
     Benzoic acid, 4-[4-[(3R)-1-buty1-3-[(R)-cyclohexylhydroxymethyl]-2,5-
CN
     dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)
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L20 ANSWER 18 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
    2006:1283330 CAPLUS
AN
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146:41897 DN

- TΙ Synergic combinations comprising a styrylquinoline compound and other HIV infection therapeutic agents
- Leh, Herve; Zouhiri, Fatima; Mouscadet, Jean-Francois; Thomas, INClaire-Marie
- Bioalliance Pharma, Fr.; Centre National De La Recherche Scientifique PA(C.N.R.S); Ecole Normale Superieure De Cachan; Universite De Paris 11 -Paris Sud
- SO PCT Int. Appl., 57pp. CODEN: PIXXD2
- DT Patent
- English LA

FAN.CNT 1

	PATENT NO.				KIND DATE		APPLICATION NO.					DATE					
ΡI	WO 2006129134			A1			WO 2005-IB1538				20050601						
	W:	ΑE,	AG,	AL,	AM,			ΑZ,									
		CN,	CO,	CR,	CU,	CZ	DE,	DK,	DM	ν.DΖ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ĨD,	Irfina	ΨΪΝ,	IS,	JP,	ΚE,	KG,	KM,	KP,	KR,	KΖ,
		LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,
		NG,	NΙ,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,
		SL,	SM,	SY,	ΤJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,
		ZA,	ZM,	ZW													
	RW:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,
		IS,	IT,	LT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	CF,
		CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG,	BW,	GH,	GM,
		ΚE,	LS,	MW,	MΖ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	ΑM,	ΑZ,	BY,	KG,
		KΖ,	MD,	RU,	ТJ,	TM											
PRAI WO 2005-IB1538							2005	0601									
\cap C	OC MADDAT 146.41907																

AΒ

MARPAT 146:41897 OS

> The invention relates to a combination comprising a quinoline compound or its salt and at least one HIV infection therapeutic agent selected from the group consisting of entry inhibitors, reverse-transcriptase inhibitors, strand-transfer inhibitors, protease inhibitors, and maturation inhibitors. The combination has therapeutic synergy in the treatment of an HIV infection compared with the quinoline compound or HIV infection therapeutic agent alone. Thus, synergic interactions between 8-hydroxy-2-[2-[(3,4-dihydroxy-5-methoxyphenyl)ethenyl]]-7-quinoline carboxylic acid (BA011FZ041) and either reverse transcriptase (zidovudine and nevirapine) or integrase inhibitors (L-731988) were investigated using a NL43 HIV-1 laboratory strain replication assay. Inhibition by combination of BA011FZ041 and other inhibitors was evaluated at three fixed molar ${\tt BA011FZ041/inhibitor\ ratios\ (1:1,\ 1:2,\ and\ 2:1)}$. Combination of BA011FZ041 with nevirapine led to a synergistic effect at ED (ED)75 and ED90 for all three ratios. Combination of BA011FZ041 with zidovudine demonstrated synergy at ED90 for all three ratios and a synergic effect at the ED75 for ratios 1:2 and 2:1. For nevirapine and zidovudine, IC50 of these drugs in combination with BA011FZ041 were decreased by a factor 2 to 6 as compared to IC50 for the drugs alone. Furthermore, combination of the two integrase inhibitors led also to synergistic effect at ED75 and ED90 for the ratios 1:1 and 2:1. For the ratio 1:2, a synergic effect was found at ED90 although a mere additive effect was detected at ED75. Finally, IC50 of L-731988 was significantly decreased by a factor 7 when it was present in combination with quinoline compds., thus emphasizing the complementarities of both classes of anti-integrase agents.

IT 461443-59-4, GSK 873140

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(synergic combinations comprising styrylquinoline compound and other HIV infection therapeutic agents)

RN 461443-59-4 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

Absolute stereochemistry.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/527,435

- L20 ANSWER 19 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
- AN 2006:1098080 CAPLUS
- DN 146:155353
- TI Resistance profile of a neutralizing anti-HIV monoclonal antibody, KD-247, that shows favourable synergism with anti-CCR5 inhibitors
- AU Yoshimura, Kazuhisa; Shibata, Junji; Kimura, Tetsuya; Honda, Akiko; Maeda, Yosuke; Koito, Atsushi; Murakami, Toshio; Mitsuya, Hiroaki; Matsushita, Shuzo
- CS Division of Clinical Retrovirology and Infectious Diseases, Center for AIDS Research, Graduate School of Medical Sciences, Kumamoto University, Kumamoto, Japan
- SO AIDS (Hagerstown, MD, United States) (2006), 20(16), 2065-2073 CODEN: AIDSET; ISSN: 0269-9370
- PB Lippincott Williams & Wilkins
- DT Journal
- LA English
- AΒ The high-affinity humanized monoclonal antibody (MAb) KD-247 reacts with a tip region in gp120-V3 and cross-neutralizes primary isolates with a matching neutralization sequence motif. We induced an HIV-1 variant that was resistant to KD-247 by exposing the JR-FL virus to increasing concns. of KD-247 in PM1/CCR5 cells, which expressed high levels of CCR5 in vitro. We determined the amino acid sequence of the gp120-encoding region of the JR-FL escape mutant from KD-247. To confirm that this substitution was responsible for the KD-247-resistance, a single-round replication assay was performed. We further evaluated the anti-HIV-1 interactions between $\mbox{KD-}247$ and various CCR5 inhibitors in vitro. At passage 8 of the culture in the presence of 1000 μ g/mL KD-247, one amino acid substitution, Gly to Glu at position 314 (G314E), was identified in the V3-tip of gp120. A pseudotyped virus with the G314E mutation was highly resistant to KD-247. Unexpectedly, this mutant virus was sensitive to CCR5 inhibitors, RANTES, recombinant human soluble CD4 (rsCD4) and an anti-CCR5 MAb, but resistant to an anti-CD4 MAb, compared with the wild-type virus. We also found that combinations of KD-247 and CCR5 inhibitors were highly synergistic. present data suggest that KD-247 has certain advantages for possible passive immunotherapy. High concns. of KD-247 are needed for viral acquisition of KD-247 resistance; the escape variants are more sensitive to CCR5 inhibitors and rsCD4; and there are high levels of synergism between KD-247 and CCR5 inhibitors at all concns. tested.
- IT 461443-59-4, AK-602
 - RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 - (resistance profile of neutralizing anti-HIV monoclonal antibody, KD-247 showed favorable synergism with anti-CCR5 inhibitors)
- RN 461443-59-4 CAPLUS
- CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 20 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2006:1055159 CAPLUS

DN 146:492646

TI The effects of ritonavir and lopinavir/ritonavir on the pharmacokinetics of a novel CCR5 antagonist, aplaviroc, in healthy subjects

AU Adkison, Kimberly K.; Shachoy-Clark, Anne; Fang, Lei; Lou, Yu; Otto, Vicky R.; Berrey, M. Michelle; Piscitelli, Stephen C.

CS GlaxoSmithKline, Research Triangle Park, NC, WSA

SO British Journal of Clinical Pharmacology (2006) 62(3), 336-344 CODEN: BCPHBM; ISSN: 0306-5251

PB Blackwell Publishing Ltd.

DT Journal

LA English

Aims: This study assessed the effects of the CYP3A inhibitors AΒ lopinavir/ritonavir (LPV/r) on the steady-state pharmacokinetics (PK) of aplaviroc (APL), a CYP3A4 substrate, in healthy subjects. Methods: In Part 1, APL PK was determined in eight subjects who received a single oral 50-mg APL test dose with/without a single dose of 100 mg ritonavir (RTV). Part 2 was conducted as an open-label, single-sequence, three-period repeat dose study in a cohort of 24 subjects. Subjects received APL 400 mg every 12 h (b.i.d.) for 7 days (Period 1), LPV/r 400/100 mg b.i.d. for 14 days (Period 2) and APL 400 mg +LPV/r 400/100 mg b.i.d. for 7 days (Period 3). All doses were administered with a moderate fat meal. PK sampling occurred on day 7 of Periods 1 and 3 and day 14 of Period 2. Results: In Part 1, a single RTV dose increased the APL $AUCO-\infty$ by 2.1-fold [90% confidence interval (CI) 1.9, 2.4]. Repeat dose coadministration of APL with LPV/r increased APL exposures to a greater extent with the geometric least squares mean ratios (90% CI) being 7.7 (6.4, 9.3), 6.2 (4.8, 8.1) and 7.1 (5.6, 9.0) for the APL AUC, Cmax, and Cmin, resp. No change in LPV AUC or Cmax and a small increase in RTV AUC and Cmax (28% and 32%) were observed The combination of APL and LPV/r was well tolerated and adverse events were mild in severity with self-limiting gastrointestinal complaints most commonly reported. Conclusions: Coadministration of APL and LPV/r was well tolerated and resulted in significantly increased APL plasma concns.

IT 461443-59-4, Aplaviroc

RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(coadministration of aplaviroc and Kaletra was well tolerated and increased pharmacokinetics parameter of aplaviroc in healthy human)

RN 461443-59-4 CAPLUS

CN Benzoic acid, 4-[4-[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 21 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2006:769177 CAPLUS

DN 145:180928

TI Human neutrophil α -defensin 4 inhibition of HIV-1

IN Lu, Wuyuan; Cocchi, Fiorenza; Wu, Zhibin

PA USA

SO U.S. Pat. Appl. Publ., 7pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	US 2006172945	A1	/ 20060803 \	US 2006-347538	20060203
PRAI	US 2005-649873P	P	20050203		

AB A method to reduce replication of HIV-1, involving administering a therapeutically effective amount of recombinant HNP4 to a subject in need thereof to combat HIV-1 infection. The HNP4 agent may be utilized in pharmaceutical compns. including a pharmaceutically acceptable carrier and an anti-viral agent, e.g., an anti-viral agent, or combination of such agents, such as nucleoside RT inhibitors, CCR5 inhibitors/antagonists, viral entry inhibitors, and functional analogs thereof.

IT 461443-59-4, AK602

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(human neutrophil α -defensin 4 inhibition of HIV-1)

RN 461443-59-4 CAPLUS

CN Benzoic acid, 4-[4-[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

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L20 ANSWER 22 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
    2006:676597 CAPLUS
AN
DN
    145:117362
    Compositions for down-regulation of CCR5 expression and methods of use
TI
    thereof
    Redfield, Robert R.; Amoroso, Anthony; Davis, Charles E.; Heredia, Alonso
IN
PA
    University of Maryland Biotechnology Institute, USA
    U.S. Pat. Appl. Publ., 35 pp.
SO
    CODEN: USXXCO
DT
    Patent
                                               same as # 54
    English
LA
FAN.CNT 2
                                        APPLICATION NO.
    PATENT NO.
                      KIND
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                              _____
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    US 2006154857
                              20060713
                                        US 2005-281195
                                                               20051116
                       A1
PΙ
                                        WO 2004-US15681
    WO 2005001027
                       A2
                                                               20040517
                              20050106
    WO 2005001027
                       А3
                              20060126
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
            CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
        SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
            SN, TD, TG
PRAI US 2003-471453P
                        Ρ
                              20030516
                       A2
                              20040517
    WO 2004-US15681
    The present invention relates to the downregulation of surface receptor
AΒ
    CCR5 expression through manipulation of the cell cycle in activated
    lymphocytes by administering a composition that arrests the G1 phase of the
    cell cycle, thereby reducing receptor sites for entry of HIV into T cells,
    and thus, the effects of HIV. Further, compns. are disclosed that include
    at least one G1 phase arresting agent and at least one antiviral agent,
    wherein the combination of agents synergistically enhances the activity of
    the antiviral agent.
ΙT
    461443-59-4, AK602
    RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
       (compns. for down-regulation of CCR5 expression by arresting G1 phase
       of cell cycle of activated lymphocytes and decreasing HIV virus entry
       and combination with other antiviral agents)
RN
    461443-59-4 CAPLUS
    Benzoic acid, 4-[4-[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-
CN
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dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

```
L20 ANSWER 23 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
     2006:578211 CAPLUS
ΑN
     145:62897
DN
     Preparation of spirotropane compounds and therapeutic use as modulators of
ΤI
     chemokine receptor activity
IN
     Chan Chun Kong, Laval; Moinet, Christophe; Courchesne, Marc; Vaillancourt,
     Louis; Blais, Charles; Bubenik, Monica
PA
     Virochem Pharma Inc., Can.
     PCT Int. Appl., 145 pp.
SO
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 1
     PATENT NO.
                           KIND
                                   DATE
                                               APPLICATION NO.
                                                                         DATE
                                   Marian Marian
                                               _____
                           ____
                                                                         _____
                                              \ WO 2005-CA1878
     WO 2006060919
                                  20060615
                                                                        20051209
PΙ
                           A1
         W: AE, AG, AL, AM, AT, AU, AZ, BB, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
              KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
              VN, YU, ZA, ZM, ZW
         RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
              IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
              CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
              GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
              KG, KZ, MD, RU, TJ, TM
     AU 2005313813
                                   20060615
                                                AU 2005-313813
                           A 1
                                                                         20051209
                                   20060615
     CA 2587508
                            Α1
                                                CA 2005-2587508
                                                                         20051209
     EP 1831222
                                   20070912
                                                EP 2005-819431
                                                                         20051209
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            AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
              IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL,
              BA, HR, MK, YU
     CN 101098871
                            Α
                                   20080102
                                                CN 2005-80046172
                                                                         20051209
     IN 2007KN02150
                            Α
                                   20070817
                                                IN 2007-KN2150
                                                                         20070612
                                   20070928
     KR 2007095310
                                                KR 2007-715147
                                                                         20070702
                            Α
                                  20041209
PRAI US 2004-634266P
                            Ρ
     US 2005-693051P
                            Ρ
                                 20050623
     WO 2005-CA1878
                            W
                                   20051209
     CASREACT 145:62897; MARPAT 145:62897.
OS
     Spiro compds. according to formula (I) are claimed: wherein R1 = NR7R9; R2
AΒ
     = (un)substituted C1-10 alkyl, C2-10 alkenyl, 3-10 membered heterocycle,
     etc.; R3 = H, (un)substituted C1-10 alkyl or C6-12 aryl; R7 = H,
     (un) substituted C1-10 alkyl, C2-10 alkenyl, C2-10 alkynyl; R9 = H or
     (un) substituted C1-10-alkyl; and ring A represents a 5 or 6 membered
     heteroring substituted once or twice with a keto substituent. These
     compds. and their pharmaceutical acceptable salts are used in combinations
     or in pharmaceutical compns. and are useful in the modulation of CCR5
     chemokine receptor activity (no data given). I are useful in the
     prevention or treatment of certain inflammatory diseases, immunoregulatory
     diseases, organ transplantation reactions and in the prevention and
     treatment of infectious diseases such as HIV infections. Preparation of I is
     exemplified. For example, II was prepared from 4,4-
     difluorocyclohexanecarboxylic acid ((S)-3-oxo-1-phenylpropyl)amide and
     3-(4-methanesulfonylbenzyl) bicyclo[3.2.1]-1\alpha, 3, 8-
     triazaspiro[4.5]dodecan-2,4-dione hydrochloride (preparation given).
```

IT 461443-59-4, GW873140

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(addnl. therapeutic agent; preparation of spirotropane compds. and therapeutic use as modulators of chemokine receptor activity)

RN 461443-59-4 CAPLUS

CN Benzoic acid, 4-[4-[((3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
L20 ANSWER 24 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
     2006:558325 CAPLUS
ΑN
     145:62894
DN
     Preparation of spirotropane compounds and methods for the modulation of
ΤI
     chemokine receptor activity to block cellular entry of HIV
IN
     Chan Chun Kong, Laval; Moinet, Christophe; Courchesne, Marc; Vaillancourt,
     Louis; Bubenik, Monica
     Virochem Pharma Inc., Can.
PA
     PCT Int. Appl., 153 pp.
SO
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 1
                           KIND
                                               APPLICATION NO.
     PATENT NO.
                                  DATE
                                                                        DATE
                                               _____
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                                  _____
                                               WO 2005-CA1877
     WO 2006060918
                                  20060615
                                                                        20051209
PΙ
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         W: AE, AG, AL, AM,
                               AT, AU, AZ,
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              CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
             KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
              VN, YU, ZA, ZM, ZW
         RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
              IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
              CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
              GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
              KG, KZ, MD, RU, TJ, TM
     CA 2590737
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                                  20060615
                                              CA 2005-2590737
                                                                        20051209
                                  20070829
                                               EP 2005-819950
     EP 1824853
                           Α1
                                                                        20051209
         R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
              IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL,
              BA, HR, MK, YU
                                   20041209
PRAI US 2004-634257P
                            Ρ
                                  20051209
     WO 2005-CA1877
                            W
OS
     MARPAT 145:62894
     Compds. according to formula I (wherein the R1= (un) substituted alkyl,
AΒ
     alkenyl, etc.; R2 = H, cycloalkylcarbonyl, ester, etc.; and A = a + 5 or 6
     membered heteroring involving a nitrogen or oxygen atom and one or two
     keto substituent) are claimed. These compds. and their pharmaceutical
     acceptable salt are used in combinations or pharmaceutical compns. and are
     useful in modulation of CCR5 chemokine receptor activity and blocking
     cellular entry of HIV (no biol. data given). Preparation of I is exemplified.
     For example, II was prepared from 3-(4-methanesulfonylbenzyl)bicyclo[3.2.1]-
     1a, 3, 8-triazaspiro [4.5] dodecan-2, 4-dione hydrochloride (preparation given) and
     (3R, 4S)-3-formyl-4-phenylpyrrolidine-1-carboxylic acid tert-Bu ester
     (preparation given).
     461443-59-4, GW873140
ΙT
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
         (addnl. therapeutic agent; preparation of spirotropane compds. and methods
        for modulation of chemokine receptor activity to block cellular entry
        of HIV)
     461443-59-4 CAPLUS
RN
CN
     Benzoic acid, 4-[4-[(3R)-1-buty1-3-[(R)-cyclohexylhydroxymethyl]-2,5-
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dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
L20 ANSWER 25 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
ΑN
     2006:542321 CAPLUS
     144:481019
DN
     Method for treating HIV infection through co-administration of tipranavir
ΤI
     and GW873140
IN
     Kraft, Michael Friedrich; Mayers, Douglas Lytle
     Boehringer Ingelheim International G.m.b.H., Germany
PA
SO
     PCT Int. Appl., 11 pp.
     CODEN: PIXXD2
DT
     Patent
     English
LA
FAN.CNT 1
                           KIND
                                   DATE
                                                APPLICATION NO.
     PATENT NO.
                                                                          DATE
     WO 2006060177
                                   20060608
                                                 WO 2005-US41757
                                                                          20051117
PΙ
                            Α1
          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
              GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
              KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX,
              MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
              VN, YU, ZA, ZM, ZW
          RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
              IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
              CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
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                                                 CA 2005-2586384
                                                                          20051117
     CA 2586384
                                   20060608
                            Α1
                                                 US 2005-281020
     US 2006160859
                             Α1
                                    20060720
                                                                          20051117
             9333 A1 20070822 EP 2005-824149 20051117
AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
     EP 1819333
              IS, IT, LI, ½T, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR
PRAI US 2004-632565P
                            Ρ
                                   20041201
     WO 2005-US41757
                                    20051117
     Method is disclosed for treating HIM infection through co-administration
AΒ
     of tipranavir and GW873140.
     461443-59-4, GW 873140
ΙT
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
      (Biological study); USES (Uses)
         (method for treating HIV infection by co-administration of tipranavir
         and GW873140)
RN
     461443-59-4 CAPLUS
     Benzoic acid, 4-[4-[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-
CN
     dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)
```

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L20 ANSWER 26 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
- AN 2006:479520 CAPLUS
- DN 145:327740
- TI Evaluation of the drug interaction potential of aplaviroc, a novel human immunodeficiency virus entry inhibitor, using a modified Cooperstown 5 + 1 cocktail
- AU Johnson, Brendan M.; Song, Ivy H.; Adkinson, Kimberly K.; Borland, Julie; Fang, Lei; Lou, Yu; Berrey, M. Michelle; Nafziger, Anne M.; Piscitelli, Stephen C.; Bertino, Joseph S., Jr.
- CS GlaxoSmithKline, Research Triang/e Park NC, USA
- SO Journal of Clinical Pharmacology (2006), 46(5), 577-587 CODEN: JCPCBR; ISSN: 0091-2700
- PB Sage Publications
- DT Journal
- LA English
- Aplaviroc is a novel CCR5 antagonist, a class of compds. under AΒ investigation as viral entry inhibitors for the treatment of human immunodeficiency virus infection. A modified Cooperstown 5+1 cocktail was used to assess the drug interaction potential of aplaviroc. Fifteen healthy subjects were administered single oral doses of caffeine (CYP1A2), warfarin (CYP2C9), omeprazole (CYP2C19), dextromethorphan (CYP2D6), and midazolam (CYP3A) alone (reference treatment) and during steady-state administration of aplaviroc (400 mg every 12 h, test treatment). Metabolite-to-parent area under the plasma concentration vs. time curve (AUC) ratios (paraxanthine/caffeine and 5-hydroxyomeprazole/omeprazole), oral clearance (S-warfarin), AUC (midazolam), and metabolite-to-parent urinary excretion ratio (dextrorphan/dextromethorphan) were determined The test-to-reference treatment ratios (geometric mean ratio and 90% confidence interval) were caffeine, 1.06 (0.97-1.17); S-warfarin, 0.93 (0.76-1.15); omeprazole, 1.07 (0.98-1.16); dextromethorphan, 1.17 (0.97-1.42); midazolam, 1.30 (1.04-1.63). No significant inhibition of CYP1A2, CYP2C9, CYP2C19, or CYP2D6 enzyme activity was observed Mild inhibition of CYP3A isoenzymes should not preclude the use of concomitant CYP3A substrates in future clin. studies with aplaviroc.
- IT 461443-59-4, Aplaviroc
 - RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 - (aplaviroc was well tolerated in healthy subjects, did not inhibit CYP1A2, CYP2C9, CYP2C19, CYP2D6 enzyme activity, while inhibition of CYP3A isoenzymes was mild evident)
- RN 461443-59-4 CAPLUS
- CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 27 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2006:396751 CAPLUS

DN 144:466332

TI Structural and Molecular Interactions of CCR5 Inhibitors with CCR5

AU Maeda, Kenji; Das, Debananda; Ogata-Aoki, Hiromi; Nakata, Hirotomo; Miyakawa, Toshikazu; Tojo, Yasushi; Norman, Rachael; Takaoka, Yoshikazu; Ding, Jianping; Arnold, Gail F.; Arnold, Eddy; Mitsuya, Hiroaki

CS Department of Hematology and Department of Infectious Diseases, Kumamoto University Graduate School of Medical and Pharmaceutical Sciences, Kumamoto, 860-8556, Japan

SO Journal of Biological Chemistry (2006) 281(18), 12688-12698 CODEN: JBCHA3; ISSN: 0021-9258

PB American Society for Biochemistry and Molecular Biology

DT Journal

LA English

AΒ The authors have characterized the structural and mol. interactions of CC-chemokine receptor 5 (CCR5) with three CCR5 inhibitors active against R5 human immunodeficiency virus type 1 (HIV-1) including the potent in vitro and in vivo CCR5 inhibitor aplaviroc (AVC). The data obtained with saturation binding assays and structural analyses delineated the key interactions responsible for the binding of CCR5 inhibitors with CCR5 and illustrated that their binding site is located in a predominantly lipophilic pocket in the interface of extracellular loops and within the upper transmembrane (TM) domain of CCR5. Mutations in the CCR5 binding sites of AVC decreased gp120 binding to CCR5 and the susceptibility to HIV-1 infection, although mutations in TM4 and TM5 that also decreased gp120 binding and HIV-1 infectivity had less effects on the binding of CC-chemokines, suggesting that CCR5 inhibition targeting appropriate regions might render the inhibition highly HIV-1-specific while preserving the CC chemokine-CCR5 interactions. The present data delineating residue by residue interactions of CCR5 with CCR5 inhibitors should not only help design more potent and more HIV-1-specific CCR5 inhibitors, but also give new insights into the dynamics of CC-chemokine-CCR5 interactions and the mechanisms of CCR5 involvement in the process of cellular entry of HIV-1.

IT 461443-59-4, Aplaviroc

RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(structural and mol. interactions of CCR5 inhibitors with CCR5)

RN 461443-59-4 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L20 ANSWER 28 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
- AN 2006:254138 CAPLUS
- DN 145:201842
- TI Development of a novel dual CCR5-dependent and CXCR4-dependent cell-cell fusion assay system with inducible qp160 expression
- AU Ji, Changhua; Zhang, Jun; Cammack, Nick; Sankuratri, Surya
- CS Viral Diseases, Roche Palo Alto, Palo Alto, CA, USA
- SO Journal of Biomolecular Screening (2006), 11(1), 65-74 CODEN: JBISF3; ISSN: 1087-0571
- PB Sage Publications
- DT Journal
- LA English
- AΒ In the current study, a novel coreceptor-specific cell-cell fusion (CCF) assay system is reported. The system possesses the following features: dual CCR5-dependent and CXCR4-dependent CCF assays, all stable cell lines, inducible expression of gp160 to minimize cytotoxicity, robust luciferase reporter, and 384-well format. These assays have been validated using various known HIV entry inhibitors targeting various stages of the HIV entry/fusion process, including fusion inhibitors, gp120 inhibitors, CCR5 antagonists, CCR5 antibodies, and CXCR4 antagonists. IC50 data generated from this assay system were well correlated to that from the antiviral assays. The effects of DMSO on this assay system were assessed, and a 2to 3-fold increase in luciferase activity was observed in the presence of 0.05% to 2% DMSO. Although cell-cell fusion efficiency was enhanced, no changes in drug response kinetics for entry inhibitors were found in the presence of 0.1% or 0.5% DMSO. This assay system has been successfully used for the identification and characterization of thousands of CCR5 inhibitors.
- IT 461443-59-4, GW873140
 - RL: BSU (Biological study, unclassified); BIOL (Biological study) (GW873140 inhibited CCR5-dependent cell-cell fusion assays in HeLa-R5 and HeLa-X4 cell lines)
- RN 461443-59-4 CAPLUS
- CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L20 ANSWER 29 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
      2006:117207 CAPLUS
ΑN
      144:213021
DN
      Preparation of pseudopeptide phosphate prodrugs of HIV protease inhibitors
ΤI
ΙN
      Degoey, David A.; Flosi, William J.; Grampovnik, David J.; Klein, Larry
      L.; Kempf, Dale J.; Wang, Xiu C.
PA
      Abbott Laboratories, USA
      PCT Int. Appl., 112 pp.
SO
      CODEN: PIXXD2
DT
      Patent
      English
LA
FAN.CNT 1
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                                                   APPLICATION NO.
      PATENT NO.
                                                                             DATE
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                              A2
                                     20060209
                                                   WO 2005-US23047
                                                                              20050629
      WO 2006014282
PΙ
      WO 2006014282
                              А3
                                     20060511
          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, QE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
               ZA, ZM, ZW
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               KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG,
               KZ, MD, RU, TJ, TM
      AU 2005270124
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                              A 1
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      CA 2571726
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      EP 1773850
                              A2
                                     20070418
                                                   EP 2005-762529
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      CN 101023090
                             Α
                                     20070822
                                                   CN 2005-80029924
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      US 2007270383
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                                                   US 2005-170197
                                                                              20050629
      KR 2007029244
                              Α
                                     20070313
                                                   KR 2007-700347
                                                                              20070105
      IN 2007MN00181
                                     20070720
                                                   IN 2007-MN181
                                                                              20070205
                              Α
PRAI US 2004-585710P
                              Ρ
                                     ~20040706
                                    20050629
      WO 2005-US23047
                              W
OS
      CASREACT 144:213021; MARPAT 144:213021
AB
      The invention discloses compds. A-L1-L2-OPO3H2 (L1 is a bond, CO or CO2;
      L2 is (CR1R2)1-5, where R1, R2 are H or alkyl; A is a pseudopeptide
      moiety, e.g., I, attached through its oxygen atom), as well as their alkyl
      or arylalkyl esters, metal or quaternary ammonium salts, for use as
      prodrugs of HIV protease inhibitors. Thus, disodium N1-[(1S,3S,4S)-1-
      benzyl-5-phenyl-3-[(phosphonatooxy)methoxy]-4-[[(1,3-thiazol-5-
      ylmethoxy)carbonyl]amino]pentyl]-N2-[[[(2-isopropyl-1,3-thiazol-4-
      yl)methyl](methyl)amino]carbonyl]-L-valinamide was prepared from the alc.
      (I-H) by treatment with Me sulfide and benzoyl peroxide in acetonitrile to
      form the 3-[(methylthio)methoxy] derivative, which was treated with phosphoric
      acid, mol. sieves and N-iodosuccinimide in THF and then with Na2S2O3 and
      Na2CO3.
      461443-59-4, GW873140
ΙT
      RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
          (preparation of pseudopeptide phosphate prodrugs of HIV protease inhibitors)
RN
      461443-59-4 CAPLUS
      Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-
CN
```

 $\label{limits} $\operatorname{dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-$ (CA INDEX NAME)$ $$\operatorname{Absolute stereochemistry.}$

10/527,435

- L20 ANSWER 30 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
- AN 2005:1256967 CAPLUS
- DN 144:368023
- TI CCR5: a target for therapeutic intervention of HIV-1 infection
- AU Mitsuya, Hiroaki
- CS Dep. of Infectious Diseases, Dep. of Hematology, School of Medicine, Kumamoto University, Japan
- SO Jikken Igakw (2005) 23(17), 2726-2731 CODEN: JIIGEF; ISSN 0288-5514
- PB Yodosha
- DT Journal; General Review
- LA Japanese
- AB A review on human immunodeficiency virus-1 (HIV-1) invasion inhibitors and chemokine receptor antagonists, discussing (1) gp41 targeted inhibitors T-20 and T-1249 and CD4 binding inhibitors PRO542 and TNX-355 and anti-CXCR4 agents, (2) CCR5 antagonists maraviroc, aplaviroc, vicraviroc and TAK-652 and (3) structural anal. of CCR5 and CCR5 antagonist binding.
- IT 461443-59-4, AK602 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 - (CCR5 as a target for therapeutic intervention of HIV-1 infection)
- RN 461443-59-4 CAPLUS
- CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

- L20 ANSWER 31 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
- 2005:1131007 CAPLUS AN
- 144:141709 DN
- TIEmerging drug targets for antiretroviral therapy
- ΑU Reeves, Jacqueline D.; Piefer, Andrew J.
- Department of Microbiology, University of Pennsylvania, Philadelphia, PA, CS USA
- Drugs (2005), 65(13), 1747-1766 SO CODEN DRUGAY; ISSN: 0012-6667
- РΒ Adis International Ltd.
- DTJournal; General Review
- LA English
- AΒ Current targets for antiretroviral therapy (ART) include the A review. viral enzymes reverse transcriptase and protease. The use of a combination of inhibitors targeting these enzymes can reduce viral load for a prolonged period and delay disease progression. However, complications of ART, including the emergence of viruses resistant to current drugs, are driving the development of new antiretroviral agents targeting not only the reverse transcriptase and protease enzymes but novel targets as well. Indeed, enfuvirtide, an inhibitor targeting the viral envelope protein (Env) was recently approved for use in combination therapy in individuals not responding to current antiretroviral regimens. Emerging drug targets for ART include: (i) inhibitors that directly or indirectly target Env; (ii) the HIV enzyme integrase; and (iii) inhibitors of maturation that target the substrate of the protease enzyme. Env mediates entry of HIV into target cells via a multistep process that presents three distinct targets for inhibition by viral and cellular-specific agents. First, attachment of virions to the cell surface via nonspecific interactions and CD4 binding can be blocked by inhibitors that include cyanovirin-N, cyclotriazadisulfonamide analogs, PRO 2000, TNX 355 and PRO 542. In addition, BMS 806 can block CD4-induced conformational changes. Secondly, Env interactions with the co-receptor mols. can be targeted by CCR5 antagonists including SCH-D, maraviroc (UK 427857) and aplaviroc (GW 873140), and the CXCR4 antagonist AMD 070. Thirdly, fusion of viral and cellular membranes can be inhibited by peptides such as enfuvirtide and tifuvirtide (T 1249). The development of entry inhibitors has been rapid, with an increasing number entering clin. trials. Moreover, some entry inhibitors are also being evaluated as candidate microbicides to prevent mucosal transmission of HIV. integrase enzyme facilitates the integration of viral DNA into the host cell genome. The uniqueness and specificity of this reaction makes integrase an attractive drug target. However, integrase inhibitors have been slow to reach clin. development, although recent contenders, including L 870810, show promise. Inhibitors that target viral maturation via a unique mode of action, such as PA 457, also have potential. In addition, recent advances in our understanding of cellular pathways involved in the life cycle of HIV have also identified novel targets that may have potential for future antiretroviral intervention, including interactions between the cellular proteins APOBEC3G and TSG101, and the viral proteins Vif and p6, resp. In summary, a number of antiretroviral agents in development make HIV entry, integration and maturation emerging drug targets. A multifaceted approach to ART, using combinations of inhibitors that target different steps of the viral life cycle, has the best potential for long-term control of HIV infection. Furthermore, the development of microbicides targeting HIV holds promise for reducing HIV transmission events.
- ΙT 461443-59-4, GW 873140

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(CCR5 antagonist GW 873140 showed potential in therapy of human immunodeficiency virus infected patient through targeting Env interactions with co-receptor mols.)

RN 461443-59-4 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

RE.CNT 222 THERE ARE 222 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/527,435

- L20 ANSWER 32 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
- AN 2005:1016895 CAPLUS
- DN 143:415586
- TI G-Protein-Coupled Receptor Affinity Prediction Based on the Use of a Profiling Dataset: QSAR Design, Synthesis, and Experimental Validation
- AU Rolland, Catherine; Gozalbes, Rafael; Nicolaie, Eric; Paugam, Marie-France; Coussy, Laurent; Barbosa, Frederique; Horvath, Dragos; Revah, Frederic
- CS Cerep, Rueil-Malmaison, 92500, Ff.
 SO Journal of Medicinal Chemistry (2005), 48(21), 6563
 - Journal of Medicinal Chemistry (2005), 48(21), 6563-6574 CODEN: JMCMAR; ISSN: 0022-2623
- PB American Chemical Society
- DT Journal
- LA English
- AB A QSAR model accounting for "average" G-protein-coupled receptor (GPCR) binding was built from a large set of exptl. standardized binding data (1939 compds. systematically tested over 40 different GPCRs) and applied to the design of a library of "GPCR-predicted" compds. Three hundred and sixty of these compds. were randomly selected and tested in 21 GPCR binding assays. Positives were defined by their ability to inhibit by more than 70% the binding of reference compds. at 10 μM . A 5.5-fold enrichment in positives was observed when comparing the "GPCR-predicted" compds. with 600 randomly selected compds. predicted as "non-GPCR" from a general collection. The model was efficient in predicting strongest binders, since enrichment was greater for higher cutoffs. Significant enrichment was also observed for peptidic GPCRs and receptors not included to develop the QSAR model, suggesting the usefulness of the model to design ligands binding with newly identified GPCRs, including orphan ones.
- IT 868056-95-5
 - RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 - (QSAR design, synthesis, and exptl. validation of G-protein-coupled receptor affinity prediction based on use of a profiling dataset)
- RN 868056-95-5 CAPLUS
- CN Benzoic acid, 4-[4-[[1-butyl-3-(cyclohexylhydroxymethyl)-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L20 ANSWER 33 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
- AN 2005:958485 CAPLUS
- DN 144:100402
- TI Antiviral activity and safety of 873140, a novel CCR5 antagonist, during short-term monotherapy in HIV-infected adults
- AU Lalezari, Jacob; Thompson, Melanie; Kumar, Priny; Piliero, Peter; Davey, Richard; Patterson, Kristine; Shachoy-Clark, Anne; Adkison, Kimberly; Demarest, James; Lou, Yu; Berrey, Michelle; Piscitelli, Stephen
- CS Quest Clinical Research, San Francisco, CA, USA
- SO AIDS (Hagerstown, MD, United States) (2005), 19(14), 1443-1448 CODEN: AIDSET; ISSN: 0269-9370
- PB Lippincott Williams & Wilkins
- DT Journal
- LA English
- Objective: 873140 is a spirodiketopiperazine CCR5 antagonist with AΒ prolonged receptor binding and potent antiviral activity in vitro. study evaluated plasma HIV RNA, safety, and pharmacokinetics following short-term monotherapy in HIV-infected adults. Design: Double-blind, randomized, placebo-controlled multi-center trial. Methods: Treatment-naive or experienced HIV-infected subjects with R5-tropic virus, CD4 cell count nadir > 200 + 106 cells/1, viral load > 5000copies/mL and not receiving antiretroviral therapy for the preceding 12 wk were enrolled. Forty subjects were randomized to one of four cohorts (200 mg QD, 200 mg BID, 400 mg QD, 600 mg BID) with 10 subjects (eight active, two placebo) in each cohort, and received treatment for 10 days. Serial HIV RNA, pharmacokinetics, and safety evaluations were performed through day 24. Results: Of the 40 subjects, 21 were treatment-experienced; 35 were male, 20 were non-white, and eight were coinfected with hepatitis C virus. Median baseline HIV RNA ranged from 4.26log10 to 4.46 log10. 873140 was generally well tolerated with no drug-related discontinuations. The most common adverse events were grade 1 gastrointestinal complaints that generally resolved within 1-3 days on therapy. No clin. significant abnormalities were observed on ECG or in laboratory parameters. Mean log changes

in HIV RNA at nadir, and the percentage of subjects with $> 1\ log10$ decrease were $-0.12\ (0\%)$ for placebo, $-0.46\ (17\%)$ for 200 mg once daily, $-1.23\ (75\%)$ for 200 mg twice daily, $-1.03\ (63\%)$ for 400 mg once daily, and $-1.66\ (100\%)$ for 600 mg twice daily. An Emax relationship was observed between the area under the 873140 plasma concentration—time curve and change in HIV RNA. Conclusions: 873140 demonstrated potent antiretroviral activity and was well tolerated. These results support further evaluation in Phase 2b/3 studies.

IT 461023-63-2

RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(CCR5 antagonist 873140 was safe, well tolerated and effective in HIV-infected patient)

RN 461023-63-2 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

● HCl

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L20 ANSWER 34 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
     2005:698347 CAPLUS
AN
     143:194248
DN
     Therapeutic combinations containing an amino acid amide HIV protease
ΤI
     inhibitor
IN
     Hammond, Jennifer Lou; Patick, Amy Karen
PA
     Agouron Pharmaceuticals, Inc., USA
     U.S. Pat. Appl. Publ., 25 pp.
SO
     CODEN: USXXCO
DT
     Patent
     English
LA
FAN.CNT 1
     PATENT NO.
                         KIND
                                 DATE
                                             APPLICATION NO.
                                                                      DATE
                                              _____
                          ____
                                  20050804
                                              US 2005-46260
     US 2005171038
                                                                       20050128
PΤ
                           Α1
     AU 2005216710
                                 20050909
                                              AU 2005-216710
                           Α1
                                                                       20050117
     CA 2555171
                                  20050909
                                              CA 2005-2555171
                                                                       20050117
                           Α1
     WO 2005082362
                                 20050909
                                             WO 2005-IB101
                                                                       20050117
                           Α1
         SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
             RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
             MR, NE, SN, TD, TG
                                 20061025
                                             EP 2005-702264
     EP 1713470
                           Α1
                                                                       20050117
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS
     BR 2005006493
                          Α
                                 20070213
                                              BR 2005-6493
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     CN 1938017
                           Α
                                 20070328
                                              CN 2005-80010030
                                                                       20050117
     JP 2007519704
                           Τ
                                 20070719
                                              JP 2006-550331
                                                                       20050117
     NO 2006003483
                           Α
                                 20060830
                                              NO 2006-3483
     MX 2006PA08632
                                 20060904
                                              MX 2006-PA8632
                           Α
     IN 2006DN04522
                                 20070824
                                              IN 2006-DN4522
                           Α
                                                                       20060804
PRAI US 2004-540749P
                           Ρ
                                 £0040130
     US 2004-615000P
                           Ρ
                                 20041001
     WO 2005-IB101
                           W
                                 20050117
OS
     CASREACT 143:194248
     The invention is related to methods for treating an HIV infection by using
AB
     a therapeutically effective amount of a combination of compds., including I
     and its related N-amide derivs. The invention is also related to compns.
     comprising certain compds. useful as inhibitors of the HIV protease enzyme
     and at least one addnl. therapeutic agent. In an XTT dye reduction method, I
     in combination with ritonavir acted synergistically against HIV-1
     infection.
     461443-59-4, GW 873140
ΙT
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (combination therapy agent; compns. comprising an amino acid amide HIV
        protease inhibitor)
     461443-59-4 CAPLUS
RN
CN
     Benzoic acid, 4-[4-[(3R)-1-buty1-3-[(R)-cyclohexylhydroxymethyl]-2,5-
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dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

- L20 ANSWER 35 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
- AN 2005:641882 CAPLUS
- DN 143:153711
- TI Preparation of amino acid hydrazide derivatives as HIV protease inhibitors
- IN Randolph, John T.; Chen, Hui-ju; Degoey, David A.; Flentge, Charles A.;
 Flosi, William J.; Grampovnik, David J.; Huang, Peggy P.; Hutchinson,
 Douglas K.; Kempf, Dale J.; Klein, Larry L.; Yeung, Ming C.
- PA USA
- SO U.S. Pat. Appl. Publ., 155 pp. CODEN: USXXCO
- DT Patent
- LA English
- FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
		/····		
PI US 2005159469	A1	20050721	US 2004-10177	20041210
PRAI US 2003-528679P	P	20031211/		
OS MARPAT 143:153711		The same of the sa		

- AB The invention relates to amino acid hydrazide derivs. I [X-Y is CH2(CH2)1-2, CH:CH or C(:Z')(CH2)1-2; Z, Z' are O, S or NH; R1, R2, R5 are independently (un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl, etc.; R3 is H, alkyl, aryl, etc.; R4 is an amino acid or acyl residue of defined structure], including pharmaceutically-acceptable salts, stereoisomers, esters or prodrugs, having HIV protease inhibitory activity. Thus, hydrazide I [X-Y is CH2CH2; Z is O; R1 is CMeEt; R2 is PhCH2; R3 is 4-(2-pyridyl)benzyl; R4 is N-carbomethoxy-tert-leucine (all-S stereo)] was prepared by a multistep sequence involving peptide coupling in the final step. Compds. of the invention showed EC50 values 1-100 nM against wild-type HIV.
- IT 461443-59-4
 - RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (preparation of amino acid hydrazide derivs. as HIV protease inhibitors)
- RN 461443-59-4 CAPLUS
- CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

- L20 ANSWER 36 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
- AN 2005:590606 CAPLUS
- DN 143:125797
- TI Pharmacokinetics and short-term safety of 873140, a novel CCR5 antagonist, in healthy adult subjects
- AU Adkison, Kimberly K.; Shachoy-Clark, Anne; Fang, Lei; Lou, Yu; O'Mara, Kathy; Berrey, M. Michelle; Piscitelli, Stephen C.
- CS GlaxoSmithKline, Research Triangle Park, WC, USA
- SO Antimicrobial Agents and Chemotherapy (2005), 49(7), 2802-2806 CODEN: AMACCO; ISSN: 0066-4804
- PB American Society for Microbiology
- DT Journal
- LA English
- 873140 Is a novel CCR5 antagonist with potent in vitro anti-human AΒ immunodeficiency virus (HIV) activity. This study was a double-blind, randomized, placebo-controlled, single- and repeat-dose escalation investigation of the safety, pharmacokinetics, and food effect of 873140 in 70 adult subjects. During single-dose escalation, three cohorts (each composed of 10 subjects, with 8 subjects receiving the active drug and 2 subjects receiving the placebo [8 active and 2 placebo]) received doses of 50, 200, 400, 800, and 1,200 mg after an overnight fast, or 400 mg plus a standard high-fat breakfast in an alternating panel design. During repeat-dose escalation, four cohorts (each with 8 active and 2 placebo) received doses of 200, 400, 600, or 800 mg every 12 h (BID) for 8 days. Laboratory safety tests, vital signs, and electrocardiograms (ECGs) were performed at regular intervals, and blood samples were obtained for pharmacokinetics. Single and repeat doses of 50 mg to 800 mg were well tolerated, with no serious adverse events and no grade 3 or 4 adverse events. The mild-to-moderate side effects were primarily gastrointestinal and included abdominal cramping, nausea, and diarrhea. No specific trends in laboratory parameters or clin. significant ECG changes were noted. Plasma 873140 concns. increased rapidly; the median time to maximum concentration of

drug

- in serum was 1.75 to 5 h. The median area under the plasma concentration-time profile (AUC) and the maximum concentration of drug in serum (Cmax) ranged from 127
 - ng \cdot h/mL and 24 ng/mL at 200 mg BID to 329 ng \cdot h/mL and 100 ng/mL at 800 mg BID, resp. Food consumption increased the AUC and Cmax by a mean of 1.7- and 2.2-fold, resp. The pharmacokinetic and safety profile supports the continued investigation of 873140 with HIV-infected subjects.

IT 461023-63-2

- RL: PKT (Pharmacokinetics); BIOL (Biological study) (pharmacokinetics and short-term safety of 873140, a novel CCR5 antagonist, in healthy adult subjects)
- RN 461023-63-2 CAPLUS
- CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

● HCl

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L20 ANSWER 37 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
    2005:588945 CAPLUS
ΑN
    143:133695
DN
    Preparation of amino acid hydrazide derivatives as HIV protease inhibitors
TI
IN
    Randolph, John T.; Chen, Hui-Ju; Degoey, David A.; Flentge, Charles A.;
    Flosi, William J.; Grampovnik, David J.; Huang, Peggy P.; Hutchinson,
    Douglas K.; Kempf, Dale J.; Klein, Larry L.; Yeung, Ming C.
    Abbott Laboratories, USA
PA
    PCT Int. Appl., 281 pp.
SO
    CODEN: PIXXD2
DT
    Patent
LA
    English
FAN.CNT 1
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                                         APPLICATION NO.
    PATENT NO.
                       KIND
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    WO 2005061487
                       A1
                             20050707
                                          NO 2004-US37711
                                                               20041110
PΙ
        NE, SN, TD, TG
    CA 2549228
                        Α1
                              20050707
                                          CA 2004-2549228
                                                                20041110
    EP 1697348
                        Α1
                              20060906
                                          EP 2004-810778
                                                                20041110
           AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS
                        Τ
                             /20070621
                                          JP 2006-543825
    JP 2007516255
                                                                20041110
    MX 2006PA06609
                        Α
                             20060831
                                          MX 2006-PA6609
                                                                20060609
PRAI US 2003-733227
                        Α
                              20031211
    WO 2004-US37711
                        W
                              20041110
OS
    MARPAT 143:133695
    The invention relates to amino acide hydrazide derivs. I [X-Y is
AΒ
    CH2(CH2)1-2, CH:CH or C(:Z')(CH2)1-2; Z, Z' are O, S or NH; R1, R2, R5 are
    independently (un) substituted alkyl, alkenyl, alkynyl, cycloalkyl,
    cycloalkenyl, aryl, etc.; R3 is H, alkyl, aryl, etc.; R4 is an amino acid
    or acyl residue of defined structure], including pharmaceutically-
    acceptable salts, stereoisomers, esters or prodrugs, having HIV protease
    inhibitory activity. Thus, hydrazide I [X-Y is CH2CH2; Z is O; R1 is
    CMeEt; R2 is PhCH2; R3 is 4-(2-pyridy1)benzy1; R4 is N-carbomethoxy-tert-
    leucine (all-S stereo)] was prepared by a multistep sequence involving
    peptide coupling in the final step. Compds. of the invention showed EC50
    values 1-100 nM against wild-type HIV.
    461443-59-4, GW873140
ΙT
    RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (preparation of amino acid hydrazide derivs. as HIV protease inhibitors)
RN
    461443-59-4 CAPLUS
    Benzoic acid, 4-[4-[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-
    dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)
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RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 38 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:588404 CAPLUS

DN 143:133693

TI Preparation of amino acid derivatives as HIV protease inhibitors

IN Degoey, David A.; Flentge, Charles A.; Flosi, William J.; Grampovnik,
 David J.; Kempf, Dale J.; Klein, Larry L.; Yeung, Ming C.; Randolph, John
 T.; Wang, Xiu C.; Yu, Su

PA USA

SO U.S. Pat. Appl. Publ., 279 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
			The section of the se				
ΡI	US 2005148623	A1	/2005070\	US 2004-8713	20041209		
PRAI	US 2003-528974P	P	20031211				
OS	MARPAT 143:133693						

AB The invention relates to amino acid derivs. A-NHCHR6CHR5CHR4CHR3NHCOCHR2NHCO2R1 [A is an amino acid or acyl residue of defined structure; R1, R2, R3, R6 are independently (un) substituted alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, heterocyclyl, aryl or heteroaryl; R4, R5 are H (not both), OH or substituted hydroxyl], including pharmaceutically-acceptable salts, prodrugs or stereoisomers, having HIV protease inhibitory activity. Thus, Me (1S, 4R, 6S, 7S, 10S)-7-benzyl-1,10-di-tert-butyl-6-hydroxy-2,9,12-trioxo-4-[4-(2-pyridinyl)benzyl]-13-oxa-3,8,11-triazatetradec-1-ylcarbamate was prepared by a multistep procedure, which includes the reaction of intermediate tert-Bu (1S, 2S, 4R)-4-amino-1-benzyl-2-hydroxy-5-[4-(2-pyridinyl)phenyl]pentylcarbamate with N-protected L-tert-leucine. Compds. of the invention showed EC50 values in the range 0.7 nM to >3.2 μM against wild-type HIV.

IT 461443-59-4

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (preparation of amino acid derivs. as HIV protease inhibitors)

RN 461443-59-4 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

- L20 ANSWER 39 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
- AN 2005:536932 CAPLUS
- DN 143:125633
- TI The appealing story of HIV entry inhibitors: from discovery of biological mechanisms to drug development
- AU Castagna, Antonella; Biswas, Priscilla; Beretta, Alberto; Lazzarin, Adriano
- CS Clinic of Infectious Diseases, San Raffaele Scientific Institute, Milan, Italy
- SO Drugs (2005), 65(7), 879-904 CODEN: DRUGAY; ISSN: 0012-6667
- PB Adis International Ltd.
- DT Journal; General Review
- LA English
- A review. Current therapeutic intervention in HIV infection relies upon AΒ 20 different drugs. Despite the impressive efficacy shown by these drugs, we are confronted with an unexpected frequency of adverse effects, such as mitochondrial toxicity and lipodystrophy, and resistance, not only to individual drugs but to entire drug classes. Thus, there is now a great need for new antiretroviral drugs with reduced toxicity, increased activity against drug-resistant viruses and a greater capacity to reach tissue sanctuaries of the virus. Two different HIV mols. have been selected as targets of drug inhibition so far: reverse transcriptase and protease. Drugs that target the interactions between the HIV envelope and the cellular receptor complex are a 'new entry' into the scenario of HIV therapy and have recently raised great interest because of their activity against multidrug-resistant viruses. There are several compds. that are at different developmental stages in the pipeline to counter HIV entry, among them: (i) the attachment inhibitor dextrin-2-sulfate; (ii) the inhibitors of the glycoprotein (gp) 120/CD4 interaction PRO 542, TNX 355 and BMS 488043; (iii) the co-receptor inhibitors subdivided in those targeting CCR5 (SCH 417690 [SCH D], UK 427857 GW 873140, PRO 140, TAK 220, AMD 887) and those targeting CXCR4 (AMD 070, KRH 2731); and (iv) the fusion inhibitors; enfuvirtide (T-20) and tifuvirtide (T-1249). The story, of the first of these drugs, enfuvirtide, which has successfully completed phase III clin. trials, has been approved by the US FDA and by the European Medicines Agency, and is now com. available worldwide, is an example of how the knowledge of basic mol. mechanisms can rapidly translate into the development of clin. effective mols.
- IT 461443-59-4, GW 873140
 - RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 - (addition of co-receptor CCR5 inhibitor GW 873140 to the rapeutic armamentarium against HIV-1 offers new hope for treating HIV infected patient)
- RN 461443-59-4 CAPLUS
- CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

RE.CNT 198 THERE ARE 198 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
L20 ANSWER 40 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
     2005:527407 CAPLUS
ΑN
     143:59982
DN
     Preparation of HIV protease inhibitors, in particular imidazolidine
ΤI
     derivatives
IN
     Flentge, Charles A.; Chen, Hui-Ju; Degoey, David A.; Flosi, William J.;
     Grampovnik, David J.; Huang, Peggy P.; Kempf, Dale J.; Klein, Larry L.;
     Krueger, Allan C.; Madigan, Darold L.; Randolph, John T.; Sun, Minghua;
     Yeung, Ming C.; Zhao, Chen
PA
SO
     U.S. Pat. Appl. Publ., 287 pp.
     CODEN: USXXCO
DT
     Patent
     English
LA
FAN.CNT 1
                                     DATE
                                                   APPLICATION NO.
     PATENT NO.
                             KIND
                                                                              DATE
                                                   _____
                             ____
                                     _____
                                                                              _____
     US 2005131042
                              Α1
                                     20050616
                                                   US 2003-733915
                                                                              20031211
PΙ
     CA 2549389
                              Α1
                                     20050707
                                                   CA 2004-2549389
                                                                              20041110
     WO 2005061450
                              Α2
                                     20050707
                                                  WO 2004-US37745
                                                                              20041110
          W: AE, AG, AL, AM, AX, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
          RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
              AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO,
               SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
               NE, SN, TD, TG
                                     20061011
                                                  EP 2004-810802
     EP 1709037
                                                                              20041110
                              Α2
              AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
               IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS
                              Т
     JP 2007513944
                                     20070531
                                                   JP 2006-543826
                                                                              20041110
     MX 2006PA06610
                              Α
                                     20060831
                                                   MX 2006-PA6610
                                                                              20060609
PRAI US 2003-733915
                                     20031211
                              Α
                                     20041110
     WO 2004-US37745
                              W
OS
     MARPAT 143:59982
AB
     Title compds. of formula ANH(CHR)(CHR1)(CHR2)NR3S(O2)R4 (I) [wherein A =
     alkylcarbonyl, arylsulfonyl, 1,3-substituted 2-oxoimidazolidinyl,
     2,4-dioxoimidazolidinyl, etc.; X, Y = independently O, S, NH; R =
      (un) substituted alk(en)yl, cycloalk(en)yl, hetero/arylalkyl, etc.; R1 = OH
     and derivs., OPO3H and derivs., OSO2H and derivs., etc.; R2 = H; R3 =
     halo/alkyl, halo/alkenyl, (un)substituted cycloalk(en)yl, aryl; R4 =
      (un) substituted cycloalk(en)yl, heterocyclyl, hetero/aryl] were prepared as
     HIV protease inhibitors. For example, II was prepared, in 62% yield, by
     coupling acid III (preparation given) with amine IV (preparation given).
showed
     antiviral activity against Wild-Type HIV with EC50 in the range of 1 nM to
     100 nM.
     461443-59-4, GW873140
ΙT
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
         (combination therapy; preparation of HIV protease inhibitors, in particular
         imidazolidine derivs.)
RN
     461443-59-4 CAPLUS
     Benzoic acid, 4-[4-[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-
CN
```

 $\label{limits} $\operatorname{dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-$ (CA INDEX NAME)$ $$\operatorname{Absolute stereochemistry.}$

```
L20 ANSWER 41 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
     2005:527398 CAPLUS
ΑN
     143:78485
DN
     Preparation of amino acid derivatives as HIV protease inhibitors
ΤI
ΙN
     Degoey, David A.; Flentge, Charles A.; Flosi, William J.; Grampovnik,
     David J.; Kempf, Dale J.; Klein, Larry L.
PA
     USA
     U.S. Pat. Appl. Publ., 204 pp.
SO
     CODEN: USXXCO
DT
     Patent
     English
LA
FAN.CNT 1
     PATENT NO.
                            KIND
                                    DATE
                                                  APPLICATION NO.
                                                                            DATE
                                                  _____
                            ____
                                     20050618
                                                  US 2003-733946
     US 2005131017
                                                                            20031211
PΤ
                             Α1
     CA 2549098
                                    20050630
                                                  CA 2004-2549098
                             Α1
                                                                            20041209
     WO 2005058841
                                    20050630
                                                  WO 2004-US41658
                             Α2
                                                                            20041209
     WO 2005058841
                                    20060309
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          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
              CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
               NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
          TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
               RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
              MR, NE, SN, TD, TG
                             A2
                                    20060906
                                                 EP 2004-813910
     EP 1697344
                                                                            20041209
          R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
               IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK,
               BA, HR, IS, YU
     JP 2007516260
                             Τ
                                    20070621
                                                  JP 2006-544070
                                                                            20041209
     MX 2006PA06612
                             Α
                                    20060831
                                                  MX 2006-PA6612
                                                                            20060609
PRAI US 2003-733946
                             Α
                                    20031211
     WO 2004-US41658
                             W
                                    20041209
     CASREACT 143:78485; MARPAT 143:78485
OS
AΒ
     The invention relates to amino acid derivs. A-
     NHCHR6CHR5CHR4CHR3NHCOCHR2NHCO2R1 [A is an amino acid or acyl residue of
     defined structure; R1, R2, R3, R6 are independently (un) substituted alkyl,
     alkenyl, alkynyl, cycloalkyl, cycloalkenyl, heterocyclyl, aryl or
     heteroaryl; R4, R5 are H (not both), OH or substituted hydroxyl],
     including pharmaceutically-acceptable salts, stereoisomers, esters or
     prodrugs, having HIV protease inhibitory activity. Thus, Me
      (1S, 4R, 6S, 7S, 10S) -7-benzyl-1, 10-di-tert-butyl-6-hydroxy-2, 9, 12-trioxo-4-[4-
      (2-pyridinyl)benzyl]-13-oxa-3,8,11-triazatetradec-1-ylcarbamate was prepared
     by a multistep procedure, which includes the reaction of intermediate
     tert-Bu (1S, 2S, 4R)-4-amino-1-benzyl-2-hydroxy-5-[4-(2-4)]
     pyridinyl)phenyl]pentylcarbamate with N-protected L-tert-leucine. Compds.
     of the invention showed EC50 values 0.7-300 nM against wild-type HIV.
     461443-59-4, GW873140
ΙT
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
         (preparation of amino acid derivs. as HIV protease inhibitors)
RN
     461443-59-4 CAPLUS
CN
     Benzoic acid, 4-[4-[(3R)-1-buty1-3-[(R)-cyclohexylhydroxymethy1]-2,5-
     dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)
```

- L20 ANSWER 42 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
- AN 2005:311526 CAPLUS
- DN 142:456334
- TI The CCR5 receptor-based mechanism of action of 873140, a potent allosteric noncompetitive HIV entry inhibitor
- AU Watson, Christian; Jenkinson, Stephen; Kazmierski, Wieslaw; Kenakin, Terry
- CS Assay Development and Compound Profiling, GlaxoSmithKline Research and Development, Research Training Park, NC, USA
- SO Molecular Pharmacology (2005), 67(4), 1268-1282 CODEN: MOPMA3; ISSN: 0026-8958
- PB American Society for Pharmacology and Experimental Therapeutics
- DT Journal
- LA English
- $4-\{[4-(\{(3R)-1-Butyl-3-[(R)-cyclohexyl(hydroxy)methyl]-2,5-dioxo-1,4,9-(\{(3R)-1-Butyl-3-[(R)-cyclohexyl(hydroxy)methyl]-2,5-dioxo-1,4,9-(\{(3R)-1-Butyl-3-[(R)-cyclohexyl(hydroxy)methyl]-2,5-dioxo-1,4,9-(\{(3R)-1-Butyl-3-[(R)-cyclohexyl(hydroxy)methyl]-2,5-dioxo-1,4,9-(\{(3R)-1-Butyl-3-[(R)-cyclohexyl(hydroxy)methyl]-2,5-dioxo-1,4,9-(\{(3R)-1-Butyl-3-[(R)-cyclohexyl(hydroxy)methyl]-2,5-dioxo-1,4,9-(\{(3R)-1-Butyl-3-[(R)-cyclohexyl(hydroxy)methyl]-2,5-dioxo-1,4,9-(\{(3R)-1-Butyl-3-[(R)-cyclohexyl(hydroxy)methyl]-2,5-dioxo-1,4,9-(\{(3R)-1-Butyl-3-[(R)-cyclohexyl(hydroxy)methyl]-2,5-dioxo-1,4,9-(\{(3R)-1-Butyl-3-[(R)-cyclohexyl(hydroxy)methyl]-2,5-dioxo-1,4,9-(\{(3R)-1-Butyl-3-[(R)-cyclohexyl(hydroxy)methyl]-2,5-dioxo-1,4,9-(\{(3R)-1-Butyl-3-[(R)-cyclohexyl(hydroxy)methyl]-2,5-dioxo-1,4,0-(\{(3R)-1-Butyl-3-[(R)-cyclohexyl(hydroxy)methyl]-2,5-dioxo-1,4,0-(\{(3R)-cyclohexyl(hydroxy)methyl)methyl-2,5-dioxo-1,4,0-(\{(3R)-cyclohexyl(hydroxy)methyl-2,5-dioxo-1,4,0-(((R)-cyclohexyl(hydroxy)methyl-2,5-dioxo-1,4,0-(((R)-cyclohexyl(hydroxy)methyl-2,5-dioxo-1,4,0-(((R)-cyclohexyl(hydroxy)methyl-2,5-dioxo-1,4,0-(((R)-cyclohexyl(hydroxy)methyl-2,5-dioxo-1,4,0-(((R)-cyclohexyl(hydroxy)methyl-2,5-dioxo-1,4,0-((R)-cyclohexyl(hydroxy)methyl-2,5-dioxo-1,4,0-((R)-cyclohexyl(hydroxy)methyl-2,5-dioxo-1,4,0-((R)-cyclohexyl(hydroxy)methyl-2,5-dioxo-1,4,0-((R)-cyclohexyl(hydroxy)methyl-2,5-dioxo-1,4,0-((R)-cyclohexyl(hydroxy)methyl-2,5-dioxo-1,4,0-((R)-cyclohexyl(hydroxy)methyl-2,5-dioxo-1,4,0-((R)-cyclohexyl(hydroxy)methyl-2,5-dioxo-1,4,0-((R)-cyclohexyl(hydroxy)methyl-2,5-dioxo-1,4,0-((R)-cyclohexyl(hydroxy)methyl-2,5-dioxo-1,4,0-((R)-cyclohexyl(hydroxy)methyl-2,5-dioxo-1,4,0-((R)-cyclohexyl(hydroxy)methyl-2,5-dioxo-1,4,0-((R)-cyclohexyl(hydroxy)methyl-2,5-dioxo-1,4,0-((R)-cyclohexyl(hydroxy)methyl-2,5-dioxo-1,4,0-((R)-cyclohexyl(hydroxy)methyl-2,5-dioxo-1,4,0-((R)-cyclohexyl(hydroxy)methyl-2,5-dioxo-1,4,0-((R)-cyclohexyl(hydroxy)methyl-2,5-dioxo-1,4,0-((R)-cyclohexyl(hydroxy)methyl-2,5-dioxo-1,4,0-((R)-cyclohexyl(hydroxy)methyl-2,5-dioxo-1,4,0-(($ AR triazaspiro[5.5]undec-9-yl}methyl)phenyl]oxy}benzoic acid hydrochloride (873140) is a potent noncompetitive allosteric antagonist of the CCR5 receptor (pKB = 8.6 ± 0.07 ; 95% Cl, 8.5 to 8.8) with concomitantly potent antiviral effects for HIV-1. In this article, the receptor-based mechanism of action of 873140 is compared with four other noncompetitive allosteric antagonists of CCR5. Although $(Z)-(4-bromophenyl)\{1'-[(2,4-bromophenyl)]\}$ dimethyl-1-oxido-3-pyridinyl)carbonyl]-4'-methyl-1,4'-bipiperidin-4yl}methanone O-ethyloxime (Sch-C; SCH 351125), 4,6-dimethyl-5-{[4-methyl-4- $((3S)-3-methyl-4-\{(1R)-2-(methyloxy)-1-[4-(trifluoromethyl)phenyl]ethyl\}-1$ piperazinyl)-1-piperidinyl]carbonyl}pyrimidine (Sch-D; SCH 417,690), triazol-4-yl]-8-azabicyclo[3.2.1]oct-8-yl}-1-phenylpropyl)cyclohexanecarboxamide (UK-427,857), and N,N-dimethyl-N-[4-[[[2-(4methylphenyl)-6,7-dihydro-5H-benzocyclo-hepten-8yl]carbonyl]amino]benzyl]tetrahydro-2H-pyran-4-aminium chloride (TAK779) blocked the binding of both chemokines $125I-MIP-1\alpha$ (also known as 125I-CCL3, 125I-LD78) and 125I-RANTES (125I-CCL5), 873140 was an ineffectual antagonist of 125I-RANTES (regulated on activation normal T cell expressed and secreted) binding (but did block binding of $125I-MIP-1\alpha$). Furthermore, 873140 blocked the calcium response effects of CCR5 activation by CCL5 (RANTES) (as did the other antagonists), indicating a unique divergence of blockade of function and binding with this antagonist. The antagonism of CCR5 by 873140 is saturable and probe-dependent, consistent with an allosteric mechanism of action. The blockade of CCR5 by 873140 was extremely persistent with a rate constant for reversal of <0.004 h-1 (t1/2 > 136 h). Coadministration studies of 873140 with the four other allosteric antagonists yielded data that are consistent with the notion that all five of these antagonists bind to a common allosteric site on the CCR5 receptor. Although these ligands may have a common binding site, they do not exert the same allosteric effect on the receptor, as indicated by their differential effects on the binding of 125I-RANTES. This idea is discussed in terms of using these drugs sequentially to overcome HIV viral resistance in the clinic.
- IT 461023-63-2
 - RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 - (873140; CCR5 receptor-based mechanism of action of compound 873140, a potent allosteric noncompetitive HIV entry inhibitor)
- RN 461023-63-2 CAPLUS
- CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

● HCl

RE.CNT 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L20 ANSWER 43 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
- 2005:233058 CAPLUS AN
- 142:366839 DN
- Potent anti-R5 human immunodeficiency virus type 1 effects of a CCR5 TΙ antagonist, AK602/ONO4128/GW873140, in a novel human peripheral blood mononuclear cell nonobese diabetic-SCID, interleukin-2 receptor y-chain-knocked-out AIDS mouse model
- Nakata, Hirotomo; Maeda, Kenji; Miyakawa, Toshikazu; Shibayama, Shiro; ΑU Matsuo, Masayoshi; Takaoka, Yoshikazu; Ito, Mamoru; Koyanagi, Yoshio; Mitsuva, Hiroaki
- CS Department of Infectious Diseases, Kumamoto University Graduate School of Medicine, Kumamoto, 860-8556, Japan
- Journal of Virology (2005), 79(4), 2087-2096 CODEN: JOVIAM; ISSN 0022-538X American Society for Microbiology SO
- PΒ
- DT Journal
- LA English
- AΒ We established human peripheral blood mononuclear cell (PBMC)-transplanted R5 human immunodeficiency virus type 1 isolate JR-FL (HIV-1JR-FL)infected, nonobese diabetic-SCID, interleukin 2 receptor γ -chain-knocked-out (NOG) mice, in which massive and systemic HIV-1 infection occurred. The susceptibility of the implanted PBMC to the infectivity and cytopathic effect of R5 HIV-1 appeared to stem from hyperactivation of the PBMC, which rapidly proliferated and expressed high levels of CCR5. When a novel spirodiketopiperazine-containing CCR5 inhibitor, AK602/ONO4128/GW873140 (mol. weight, 614), was administered to the NOG mice 1 day after R5 HIV-1 inoculation, the replication and cytopathic effects of R5 HIV-1 were significantly suppressed. In saline-treated mice (n = 7), the mean human CD4+/CD8+ cell ratio was 0.1 on day 16 after inoculation, while levels in mice (n = 8) administered AK602 had a mean value of 0.92, comparable to levels in uninfected mice (n = 7). The mean number of HIV-RNA copies in plasma in saline-treated mice were .apprx.106/mL on day 16, while levels in AK602-treated mice were 1.27+103/mL (P = 0.001). AK602 also significantly suppressed the number of proviral DNA copies and serum p24 levels (P = 0.001). These data suggest that the present NOG mouse system should serve as a small-animal AIDS model and warrant that AK602 be further developed as a potential therapeutic for HIV-1 infection. 461443-59-4, AK602
- RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES

(anti-R5 HIV1 activity of CCR5 antagonist, AK602, in novel PBMC diabetic-SCID, IL-2R-knocked-out AIDS mouse model)

- 461443-59-4 CAPLUS RN
- Benzoic acid, 4-[4-[(3R)-1-buty1-3-[(R)-cyclohexylhydroxymethyl]-2,5-CN dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
L20 ANSWER 44 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
     2005:160977 CAPLUS
AN
DN
     142:246180
     Pharmaceutical compositions comprising CCR5 antagonists
TI
IN
     Peled, Amnon; Wald, Ori; Galun, Eithan
PA
     Hadasit Medical Research Services & Development Ltd., Israel
SO
     PCT Int. Appl., 36 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 1
                                                                                DATE.
     PATENT NO.
                             KIND
                                      DATE
                                                    APPLICATION NO.
                              Α2
                                      20050224
                                                    WO 2004-IL743
                                                                                20040812
PΙ
     WO 2005016226
     WO 2005016226
                              А3
                                      20060803
          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
               GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
               LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
               NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
          RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TC
               SN, TD, TG
                                                    no US appln in patent family
                                      20030814
PRAI IL 2003-157398
                              Α
     A pharmaceutical composition comprising at least one CCR5 antagonist, such as
     anti-CCR5 antibodies, modified chemokines or a fraction thereof, peptides
     derived from such chemokines, and small organic mols., e.g., TAK 220, SCH C,
     SCH D, AK 602 or UK 427857, and a a pharmaceutically acceptable carrier is
     useful for reducing liver inflammation and liver damage caused by HCV
     infection. The pharmaceutical composition comprising CCR5 antagonists is
     useful for administration together with combined interferon-\alpha and
     ribavirin therapy.
     461443-59-4, AK 602
ΙT
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
         (compns. comprising CCR5 antagonists for treatment of liver diseases)
RN
     461443-59-4 CAPLUS
CN
     Benzoic acid, 4-[4-[(3R)-1-buty1-3-[(R)-cyclohexylhydroxymethy1]-2,5-
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dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

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L20 ANSWER 45 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
    2005:74120 CAPLUS
AN
    142:176697
DN
    Preparation of spiro compounds for the modulation of chemokine receptor
ΤI
IN
    Chan, Chun Kong; Zhang, Ming-Qiang; Moinet, Christophe; Proulx, Melanie;
    Reddy, Thumkunta Jagadeeswar; Courchesne, Marc
    Virochem Pharma Inc., Can.
PA
    PCT Int. Appl., 338 pp.
SO
    CODEN: PIXXD2
DT
    Patent
                                                     same as # 54
LA
    English
FAN.CNT 1
                              DATE
                                        APPLICATION NO.
    PATENT NO.
                      KIND
                                                               DATE
                      ____
                                         _____
                              _____
                                                              _____
    WO 2005007656
                       A1 20050127 WO 2004-CA1048
                                                               20040716
PΙ
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
            CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
        SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
            SN, TD, TG
    CA 2573951
                              20050127
                                        CA 2004-2573951
                                                                20040716
                        Α1
    EP 1776362
                        Α1
                              20070425
                                         EP 2004-761573
                                                                20040716
        R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
            IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, HR, LT, LV, MK
    US 2005075326
                      A1 20050407
                                       US 2004-893583
                                                               20040719
                        Ρ
PRAI US 2003-487973P
                              20030718
    WO 2004-CA1048
                        W
                              20040716
OS
    MARPAT 142:176697
    The title compds. I [Y, Z and X = CH2, CO, CR4R5; W = H, alkyl, alkenyl,
AΒ
    aryl, etc.; R1 = H, OH, alkyl, etc.; R2 = alkyl, alkenyl, alkynyl, aryl,
    heterocyclyl; R3 = H, alkyl, alkenyl, alkynyl, aryl; R4, R5 = H, alkyl,
    alkenyl, alkynyl, aryl] and their pharmaceutically acceptable salts,
    useful for the modulation of CCR5 chemokine receptor activity and the
    treatment or prevention of diseases associated therewith, were prepared E.g.,
    a multi-step synthesis of II.HCl, starting from tert-Bu
    1-oxo-2,8-diaza-spiro[4.5]decane-8-carboxylate and 4-bromobenzyl bromide,
    was given. The compds. I have been found to have activity in binding to
    the CCR5 receptor, generally with an IC50 values of < 25 \mu M_{\odot} Certain
    compds. I have also been tested in an assay for HIV activity, and
    generally having an IC50 values of < 1 \mu M.
    461443-59-4, Ak602
ΙT
    RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
       (co-drug; preparation of spiro compds. for treating diseases associated with
       CCR5 chemokine receptor activity in combination with other agents)
    461443-59-4 CAPLUS
RN
    Benzoic acid, 4-[4-[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-
    dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)
```

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
L20 ANSWER 46 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
      2005:14522 CAPLUS
AN
DN
      142:86614
      Compositions for down-regulation of CCR5 expression and reducing HIV entry
ΤI
      into T-cells
      Redfield, Robert R.; Amoroso, Anthony; Davis, Charles E.; Heredia, Alonsa
IN
      University of Maryland Biotechnology Institute, USA
PΑ
      PCT Int. Appl., 58 pp.
SO
      CODEN: PIXXD2
DT
      Patent
                                                           same as # 22
      English
LA
FAN.CNT 2
      PATENT NO.
                            KIND
                                      DATE
                                                   APPLICATION NO.
                                                                               DATE
                            ____
                                      _____
                                                    _____
      WO 2005001027
                             A2
                                      20050106
                                                   WO 2004-US15681
                                                                                20040517
PΙ
                             A3
      WO 2005001027
                                      20060126
          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
               CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
          CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
               SN, TD, TG
      AU 2004251228
                                      20050106
                                                    AU 2004-251228
                                                                                20040517
                               Α1
      CA 2526122
                              Α1
                                      20050106
                                                    CA 2004-2526122
                                                                                20040517
                              Α2
                                      20060222
                                                    EP 2004-752660
      EP 1627048
                                                                                20040517
          R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
               IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR
      CN 1805740
                                    20060719 CN 2004-80016720
                                                                                20040517
                             А
      BR 2004010360
                             Α
                                      20060801
                                                    BR 2004-10360
                                                                                20040517
      MX 2005PA12352
                             Α
                                     20060711
                                                    MX 2005-PA12352
                                                                                20051116
      US 2006154857
                             A1 20060713
                                                   US 2005-281195
                                                                                20051116
      IN 2005DN05654
                                     20071130
                                                    IN 2005-DN5654
                                                                                20051206
                             А
PRAI US 2003-471453P
                             Р
                                     20030516
                           W
      WO 2004-US15681
                                      20040517
AB
      The present invention relates to the downregulation of surface receptor
      CCR5 expression through manipulation of the cell cycle in activated
      lymphocytes by administering a composition that arrests the G1 phase of the
      cell cycle, thereby reducing receptor sites for entry of HIV into T cells,
      and thus, the effects of HIV. Further, a composition is disclosed that
      includes a G1 phase arresting agent and an antiviral agent, wherein the
      combination synergically enhances the activity of the antiviral agent.
      461443-59-4, Ak602
ΙT
      RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
      (Biological study); USES (Uses)
          (compns. for down-regulation of CCR5 expression and reducing HIV entry
         into T-cells)
      461443-59-4 CAPLUS
RN
      Benzoic acid, 4-[4-[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-
      dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)
```

```
L20 ANSWER 47 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
     2004:996006 CAPLUS
AN
     141:406151
DN
     Effector cell function inhibitor
ΤI
IN
                         Sugiyama, Tetsuya;
                                                                 Kasano, Miki
PA
     Uno rnarmaceutical Co., Ltd., Japan
SO
     PCT Int. Appl., 114 pp.
     CODEN: PIXXD2
     Patent
DT
                                                     common inventors
LA
    Japanese
FAN. CNT....
                                    DATE
     PATENT NO.
                            KIND
                                                 APPLICATION NO.
                                                                             DATE
                                     area and a second
                                                  ______
                                                                                         no 102(e) date
                                   20041118
     WO 2004098638
                                                 WO 2004-JP6197
                                                                            20040428
PΙ
                             A1
         W: AE, AG, AL, AM, AR, AU, AZ, BA, BB, BG, BR, BW, BY, B4, CA, CII,
CN. CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
              GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
              LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
              NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
          TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,

AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,

EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,

SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
              SN, TD, TG
                                   20060208
     EP 1623721
                             Α1
                                                 EP 2004-730075
                                                                            20040428
          R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
               IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK_
     US 2007270429
                          A1 20071122
                                               US 2007-555611 ODP
                                                                             20070314
                                    20030506
PRAI JP 2003-128193
                             Α
     WO 2004-JP6197
                             TAT
                                    20040428
     MARPAT 141:406151
OS
     An effector cell function inhibitor comprised of CCR5-antagonist.
AΒ
     effector cell function inhibitor comprised of CCR5-antagonist is capable
     of inhibiting the function of effector cells playing an important roll in
     disease generation, etc., so that it is useful in the prevention and/or
     treatment of, for example, transplant rejections (rejection of solid organ
     graft, rejection of pancreatic cell transplant in diabetes, graft-vs.-host
     disease (GVHD), etc.), autoimmune diseases (arthritis, chronic arthritic
     rheumatism, multiple sclerosis, ulcerative colitis, etc.), allergoses
     (asthma, etc.), ischemic diseases (ischemia reperfusion lesion, etc.),
     cancer or cancer metastasis, etc.
     461023-63-2 676451-07-3 676455-06-4
ΤT
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
      (Biological study); USES (Uses)
         (pharmacol. of cyclohexyldioxotriazaspiroundecaylmethylphenoxybenzoate
         analogs as CCR5 antagonists and effector cell function inhibitors)
     461023-63-2 CAPLUS
RN
CN
     Benzoic acid, 4-[4-[(3R)-1-buty1-3-[(R)-cyclohexylhydroxymethyl]-2,5-
     dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride
      (9CI) (CA INDEX NAME)
```

● HCl

RN 676451-07-3 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-ethoxy-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676455-06-4 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-3-methoxy-(CA INDEX NAME)

Absolute stereochemistry.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/527,435

L20 ANSWER 48 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2004:875343 CAPLUS

DN 142:147626

TI GW-873140

AU McIntyre, J. A.; Castaner, J.

CS Prous Science, Barcelona, 08080, Spain

SO Drugs of the Future (2004), 29(7), 677-679 CODEN: DRFUD4; ISSN 0377-8282

PB Prous Science

DT Journal; General Review

LA English

AB A review. The human immunodeficiency virus (HIV) is a highly mutative virus, representing a challenge for researchers in terms of the development of effective therapeutic strategies against HIV and AIDS. HIV entry inhibitors block the fusion of HIV with host cells and are not compromised by the process of viral resistance, implicit with many anti-HIV therapies. The R5 viral strain is the most prevalent viral type isolated from asymptomatic individuals and its coreceptor CCR5 is blocked by GW-873140 (Ono-4128, AK-602). GW-873140 demonstrated potent activity against a wide spectrum of laboratory and primary HIV R5 isolates, and anti-HIV activity was observed for up to 24 h following binding to CCR5. This was also demonstrated in a phase I study in healthy adult subjects, with prolonged CCR5 receptor occupancy despite plasma levels of GW-873140 at or below the assay detection limit. The drug was well tolerated in this study and is entering phase II testing.

IT 461443-59-4P, GW873140

RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(GW-873140 for treatment of HIV injection)

RN 461443-59-4 CAPLUS

CN Benzoic acid, 4-[4-[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 49 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2004:670576 CAPLUS

DN 141:235755

TI Spirodiketopiperazine-based CCR5 inhibitor which preserves CC-chemokine/CCR5 interactions and exerts potent activity against R5 human immunodeficiency virus type 1 in vitro

AU Maeda, Kenji; Nakata, Hirotomo; Koh, Yasuhiro; Miyakawa, Toshikazu; Ogata, Hiromi; Takaoka, Yoshikazu; Shibayama, Shiro; Sagawa, Kenji; Fukushima, Daikichi; Moravek, Joseph; Koyanangi, Yoshio; Mitsuya, Hiroaki

CS Dep. Hematol., Kumamoto Univ. Sch. Med., Kumamoto, 860-8556, Japan

SO Journal of Virology (2004), 78(16), 8654-8662 CODEN: JOVIAM; ISSN: 0022-538X

PB American Society for Microbiology

DT Journal

LA English

AB We identified a novel spirodiketopiperazine (SDP) derivative, AK602/ONO4128/GW873140, which specifically blocked the binding of macrophage inflammatory protein 1α (MIP- 1α) to CCR5 with a high affinity (Kd of ≈ 3 nM), potently blocked human immunodeficiency virus type 1 (HIV-1) gp120/CCR5 binding and exerted potent activity against a wide spectrum of laboratory and primary R5 HIV-1 isolates, including multidrug-resistant HIV-1 (HIV-1MDR) (50% inhibitory concentration values of 0.1 to 0.6 nM) in vitro. AK602 competitively blocked

the

binding to CCR5 expressed on Chinese hamster ovary cells of two monoclonal antibodies, 45523, directed against multidomain epitopes of CCR5, and 45531, specific against the C-terminal half of the second extracellular loop (ECL2B) of CCR5. AK602, despite its much greater anti-HIV-1 activity than other previously published CCR5 inhibitors, including TAK-779 and SCH-C, preserved RANTES (regulated on activation normal T-cell expressed and secreted) and MIP-1 β binding to CCR5+ cells and their functions, including CC-chemokine-induced chemotaxis and CCR5 internalization, while TAK-779 and SCH-C fully blocked the CC-chemokine/CCR5 interactions. Pharmacokinetic studies revealed favorable oral bioavailability in rodents. These data warrant further development of AK602 as a potential therapeutic for HIV-1 infection.

IT 461443-59-4, AK 602

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(ONO 4128, GW 873140; spirodiketopiperazine-based CCR5 inhibitor which preserves CC-chemokine/CCR5 interactions and exerts potent activity against R5 human immunodeficiency virus type 1 in vitro)

RN 461443-59-4 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
L20 ANSWER 50 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
     2004:531388 CAPLUS
ΑN
     141:82353
DN
     Antagonist and agonist binding to strong binding site of chemokine
ΤI
                                     Watanabe, Noriki; Takeda, Kazuhiko; Tada,
IN
     niαeaki; fukusnima, paikicni
     Ono Pharmaceutical Co., Ltd., Japan
PA
SO
     PCT Int. Appl., 88 pp.
     CODEN: PIXXD2
DT
     Patenton
                                                   common inventors
LA
     Japanese
FAN.CNT 1
                                 DATE
                                                                      DATE
     PATENT NO.
                                              APPLICATION NO.
                          KIND
                                            \______
                                 understand .....
                          ____
                                              NO 2003-JP15973
                                                                     20031212
     WO 2004054616
                                 20040701
PΤ
                          Α1
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BR, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ,
                                                                                 no 102(e) date
         TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                              20040709 AU 2003-289329
     AU 2003289329
                          A1
                                                                    20031212
                                 20050907
     EP 1570860
                          Α1
                                            EP 2003-780739
                                                                      20031212
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
                                             US 2005-538364 no ODP
     US 2006251651
                                 20061109
                         A1
PRAI JP 2002-363013
                           Α
                                 20021213
     WO 2003-JP15973
                           W
                                 20031212
AΒ
     An antagonist or an agonist binding to the strong binding site of CCR5; a
     preventive and/or a remedy for allergic diseases, inflammatory diseases,
     immune diseases and/or cancerous diseases containing the same; a method of
     screening a compound binding to the strong binding site of CCR5; a
     preventive and/or a remedy for allergic diseases, inflammatory diseases,
     immune diseases and/or cancerous diseases containing the antagonist or the
     agonist selected by the screening method; an antagonist or an agonist
     binding to the strong binding site of a chemokine receptor; a preventive
     and/or a remedy for allergic diseases, inflammatory diseases, immune
     diseases and/or cancerous diseases containing the same; a method of screening
     a compound binding to the strong binding site of a chemokine receptor; and a
     preventive and/or a remedy for allergic diseases, inflammatory diseases,
     immune diseases and/or cancerous diseases containing the antagonist or the
     agonist selected by the screening method. These antagonists or agonists
     are useful as preventives and/or remedies for allergic diseases,
     inflammatory diseases, immune diseases and/or cancerous diseases.
ΙT
     461023-23-4 461023-63-2
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (antagonists and agonists binding to strong binding site of chemokine
        receptors as antiinflammatory, immunosuppressants, and antitumor
        agents)
RN
     461023-23-4 CAPLUS
     Benzamide, 4-[4-[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-
CN
```

1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline R & R & N \\ H & N & N \\ O & Bu-n & O \end{array}$$

● HCl

RN 461023-63-2 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
L20 ANSWER 51 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
     2004:333850 CAPLUS
AN
DN
     140:355836
     High-mannose oligosaccharide cluster conjugated with immunogenic protein
ΤI
     for use as HIV vaccines
ΙN
     Wanq, Lai-xi
PA
     University of Maryland Biotechnology Institute, Off. of Research Admin./
     Tech. Dev., USA
SO
     PCT Int. Appl., 68 pp.
     CODEN: PIXXD2
                                                                same as # 54
DT
     Patent
LA
     English
FAN.CNT 1
                           KIND
                                     DATE
                                                  APPLICATION NO.
     PATENT NO.
                                                                               DATE
                            ____
                                     _____
                                                   _____
                                                                              _____
     WO 2004033663
                             A2
                                     20040422
                                                  WO 2003-US32496
                                                                              20031014
РΤ
                             А3
     WO 2004033663
                                     20060316
          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
               CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG,
          EI, EU, EV, MA, MD, MG, MR, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, PE, RI, CG, CG, CM, CA, CN, CO, CM, MI, MB, NE, CM, TD, TC
               BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     CA 2504755
                             Α1
                                     20040422 CA 2003-2504755 20031014
     AU 2003282821
                              Α1
                                     20040504
                                                   AU 2003-282821
                                                                               20031014
                             A2
                                     20050914
                                                  EP 2003-774819
     EP 1572963
                                                                              20031014
          R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
               IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     US 2005244424
                           A1 20051103
                                                   US 2005-531124
                                                                               20050630
                             P
PRAI US 2002-417764P
                                     20021011
                                     20031014
     WO 2003-US32496
                              W
     The present invention relates to a constructed oligosaccharide cluster,
     optionally bonded to an immunogenic protein, that can be administered to a
     subject to induce an immune response for increasing production of 2G12 and/or
     used in assays as reactive sites for determining compds. that inactivate and/or
     bind the high-mannose oligosaccharide cluster. The high-mannose
     oligosaccharide cluster comprises ≥2 high-mannose oligosaccharides
     attached a scaffolding framework of monosaccharide, cyclic peptide, cyclic
     organic compound or 11-bis-maleimidetetraethyleneglycol. The high-mannose
     oligosaccharide that mimics high-mannose N-glycan of HIV-1 gp120 comprises
     Man9, Man8, Man7, Man6, Man5 or a combination thereof. The high-mannose
     oligosaccharide of the invention is derived from soybean agglutinin or
     chemical synthesized. The immunogenic protein is keyhole limpet hemocyanin,
     tetanus toxoid, diphtheria toxoid, bovine serum albumin, ovalbumin,
     thyroglobulin, myoglobin, cholera toxin \beta-subunit, Iq. and/or
     tuberculosis purified protein derivative Compns. comprising these clusters,
     methods of using these clusters and compns. are disclosed.
     461443-59-4, AK 602
ΙT
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
         (high-mannose oligosaccharide cluster conjugated with immunogenic
         protein for use as HIV vaccines)
RN
     461443-59-4 CAPLUS
     Benzoic acid, 4-[4-[(3R)-1-buty1-3-[(R)-cyclohexylhydroxymethy1]-2,5-
```

CN

 $\label{limits} $\operatorname{dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-$ (CA INDEX NAME)$ $$\operatorname{Absolute stereochemistry.}$

```
L20 ANSWER 52 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
     2004:267337 CAPLUS
ΑN
     140:309368
DN
     Novel crystals of triazaspiro[5.5]undecane derivative
ΤI
IN
     Takaoka, Yoshikazu; Okamoto, Masaki; Genba, Yuichi
PA
     Ono Pharmaceutical Co., Ltd., Japan
SO
     PCT Int. Appl., 96 pp.
     CODEN: PIXXD2
                                                 Common inventors
DT
     Patent
LA
     Japanese
                                                no 102(e) date
    CNT 1
FAN
                                     DATE
     PATENT-NO.
                             KIND
                                                    APPLICATION NO.
                                                                               DATE
                                                    _____
                              Α1
                                     20040401
                                                   WO 2003-JP11835
PΙ
     WO 2004026874
                                                                               20030917
                                                ÆA, BB, BG, BR, BY, BZ, CA, CH, CN,
          W: AE, AG, AL, AM, AT, AU, AZ,
               CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR,
               LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
          RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, SC, SZ, TZ, UG, ZM, CW, CZ, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                                 AU 2003-271057
     AU 2003271057
                                     20040408
                              Α1
                                                                               20030917
     EP 1541573
                              Α1
                                     20050615
                                                  EP 2003-751273
                                                                               20030917
          R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
               IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
                                                 US 2005-527193
                            A1 20060309
     US 2006052407
PRAI JP 2002-272079
                              Α
                                     20020918
     WO 2003-JP11835
                              W
                                     20030917
     Claimed are crystals of non-solvated (3R)-1-butyl-2,5-dioxo-3-((1R)-1-butyl-2)
AΒ
     hydroxy-1-cyclohexylmethy1)-9-(4-(4-carboxyphenyloxy)phenylmethy1)-1,4,9-
     triazaspiro[5.5]undecane hydrochloride. These crystals have a potent
     antagonism to chemokine/chemokine receptors. Owing to these
     characteristics, they are useful in producing preventives and/or remedies
     for various inflammatory diseases, etc. Formulations containing the above
     crystals are given.
ΙT
     461023-63-2P
     RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic
     preparation); THU (Therapeutic use); BIOL (Biological study); PREP
      (Preparation); USES (Uses)
         (preparation of crystals of triazaspiro[5.5]undecane derivative with
chemokine
         antagonist activity)
      461023-63-2 CAPLUS
RN
     Benzoic acid, 4-[4-[(3R)-1-buty1-3-[(R)-cyclohexylhydroxymethyl]-2,5-
CN
     dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride
      (9CI) (CA INDEX NAME)
```

● HCl

IT 461443-59-4P 676449-48-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of crystals of triazaspiro [5.5] undecane derivative with chemokine

antagonist activity)

RN 461443-59-4 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

Absolute stereochemistry.

RN 676449-48-2 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-(phenylmethyl)-, (3R)-, monomethanesulfonate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 676449-46-0 CMF C26 H39 N3 O3

CM 2

CRN 75-75-2 CMF C H4 O3 S

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L20 ANSWER 53 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
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AN 2004:267336 CAPLUS

DN 140:303699

- TI Preparation of triazaspiro[5.5]undecane derivatives as chemokine receptor CCR5 antagonists and drugs comprising the same as the active ingredients
- IN Takaoka, Yoshikazu; Nishizawa, Rena; Shibayama, Shiro; Sagawa, Kenji; Matsuo, Masayoshi
- PA Ono Pharmaceutical Co., Ltd., Japan
- SO PCT Int. Appl., 288 pp. CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

AΒ

Applicant's WO

r AN.	PATENT NO.				KIND		DATE		APPLICATION NO.						DATE			
ΡI	WO 2004026873			A1 20040401		WO 2003-JP11834					20030917							
		W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FΙ,	GB,	GD,	GE,
			GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	KR,	KΖ,	LC,	LK,	LR,
			LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MΖ,	NΙ,	NO,	NZ,	OM,
			PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	ТJ,	TM,	TN,
			TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW			
		RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,
			KG,	KΖ,	MD,	RU,	ТJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
			FI,	FR,	GB,	GR,	HU,	ΙE,	ΙΤ,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,
			BF,	ΒJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	ΤG
	CA	CA 2497903			A1		2004	0401	CA 2003-2497903					20030917				
	ΑU								AU 2003-272879						20030917			
	ΕP	EP 1541574			A1	20050615			EP 2003-753933						20030917			
		R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙΤ,	LI,	LU,	ΝL,	SE,	MC,	PT,
								RO,	MK,	CY,	AL,	TR,	ВG,	CZ,	EE,	HU,	SK	
	BR 2003014304			A		2005	0726	BR 2003-14304						20030917				
	CN	CN 1688577			А				CN 2003-824386									
	MX	MX 2005PA02771			Α		20050606			MX 2005-PA2771					20050311			
	US 2005267114 A1				A1 20051201									20050311				
	NO 2005001379 A ZA 2005002222 A				20050617			NO 2005-1379 ZA 2005-2222					20050316 20050316					
					2005													
PRAI	JP 2002-270849				А		2002											
	WO 2003-JP11834				M		2003	0917										
OS	MAI	MARPAT 140:303699																

The title compds. [I; R1 = (a)] each (un) substituted and partially or completely saturated C3-15 mono-, di-, or tricarbocyclic aryl or 3- to 15-membered mono-, di-, or triheterocyclic aryl latter containing heteroatoms selected from 1-4 N atoms, 1 or 2 O atoms, and/or 1 or 2 S atoms, or (b) C1-8 alkyl, C2-4 alkenyl, or C2-4 alkynyl each substituted by 1-3substituents selected from each (un)substituted HO, acyl, NH2, CONH2, acylamino, sulfonylamino, :NH, and :NOH; R2 = H, C1-8 alkyl, C2-8 alkenyl, C2-8 alkynyl, each (un) substituted Ph, pyridinyl, or C3-8 cycloalkyl, group (b); R3, R4 = (i) H, C1-8 alkyl, C2-8 alkenyl, C2-8 alkynyl, or (ii) C1-8 alkyl, C2-8 alkenyl, or C2-8 alkynyl each substituted by 1-5 substituents selected from group (a), HO, and tetrahydropyran-4-ylidene], quaternary ammonium salts, N-oxides, or salts thereof are prepared These compds. are useful in preventing and/or treating various inflammatory diseases (asthma, nephritis, nephropathy, hepatitis, arthritis, rheumatoid arthritis, rhinitis, conjunctivitis, ulcerative colitis, etc.), immune diseases (autoimmune disease, transplant rejection, immune suppression, psoriasis, multiple sclerosis, etc.), infection with human

immunodeficiency virus (acquired immune deficiency syndrome), allergic diseases (atopic dermatitis, urticaria, allergic bronchopulmonary aspergillosis, allergic eosinophilic gastroenteritis, etc.), ischemic reperfusion injury, acute respiratory distress syndrome, shock accompanying bacterial infection, diabetes, cancer metastasis, etc. (no data). They are improved in bioavailability when administered orally, metabolic stability, liver or systemic clearance, or affinity for chemokine receptor CCR compared to prior art compds. and exhibit very low toxicity. Thus, 1-benzyl-4-piperidone, (2R,3R)-2-(tertbutoxycarbonylamino)-3-cyclohexyl-3-hydroxypropanoic acid, n-butylamine, and 2-(morpholin-4-yl)ethyl isocyanide were stirred in MeOH at 50° overnight to give, after workup, 1-benzyl-4-[2-(morpholin-4y1)ethylaminocarbony1]-4-[N-buty1-N-[(2R,3R)-2-amino-3-hydroxy-3cyclohexylpropanoyl]amino]piperidine which was stirred in AcOH at 70° for 1 h to give, after workup, (3R)-1-butyl-2, 5-dioxo-3-[(1R)-1-butyl-2]hydroxy-1-cyclohexylmethyl]-9-phenylmethyl-1,4,9-triazaspiro[5.5]undecane (II). A tablet and an ampule formulation containing specific compound I were described.

ΤТ 461023-03-0P 461023-63-2P 676449-46-0P 676449-47-1P 676449-48-2P 676449-49-3P 676449-52-8P 676449-57-3P 676449-58-4P 676449-59-5P 676449-60-8P 676449-61-9P 676449-62-0P 676449-63-1P 676449-66-4P 676449-67-5P 676449-80-2P 676449-86-8P 676449-87-9P 676449-88-0P 676449-89-1P 676449-93-7P 676449-95-9P 676450-01-4P 676450-05-8P 676450-06-9P 676450-07-0P 676450-08-1P 676450-11-6P 676450-12-7P 676450-13-8P 676450-16-1P 676450-17-2P 676450-18-3P 676450-19-4P 676450-22-9P 676450-24-1P 676450-25-2P 676450-26-3P 676450-28-5P 676450-30-9P 676450-32-1P 676450-33-2P 676450-34-3P 676450-35-4P 676450-36-5P 676450-38-7P 676450-39-8P 676450-40-1P 676450-41-2P 676450-42-3P 676450-43-4P 676450-44-5P 676450-45-6P 676450-46-7P 676450-47-8P 676450-49-0P 676450-50-3P 676450-52-5P 676450-55-8P 676450-57-0P 676450-59-2P 676450-60-5P 676450-62-7P 676450-64-9P 676450-70-7P 676450-72-9P 676450-73-0P 676450-74-1P 676450-76-3P 676450-77-4P 676450-80-9P 676450-81-0P 676450-82-1P 676450-83-2P 676450-84-3P 676450-85-4P 676450-86-5P 676450-87-6P 676450-88-7P 676450-89-8P 676450-90-1P 676450-91-2P 676450-92-3P 676450-93-4P 676450-94-5P 676450-95-6P 676450-96-7P 676450-97-8P 676450-98-9P 676450-99-0P 676451-00-6P 676451-01-7P 676451-03-9P 676451-04-0P 676451-05-1P 676451-06-2P 676451-07-3P 676451-08-4P 676451-09-5P 676451-10-8P 676451-11-9P 676451-12-0P 676451-13-1P 676451-14-2P 676451-15-3P 676451-16-4P 676451-18-6P 676451-20-0P 676451-21-1P 676451-28-8P 676451-30-2P 676451-32-4P 676451-33-5P 676451-35-7P 676451-37-9P 676451-39-1P

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676451-41-5P 676451-43-7P 676451-45-9P
676451-47-1P 676451-49-3P 676451-51-7P
676451-53-9P 676451-54-0P 676451-55-1P
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676451-59-5P 676451-60-8P 676451-61-9P
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676451-74-4P 676451-75-5P 676451-76-6P
676451-77-7P 676451-78-8P 676451-79-9P
676451-80-2P 676451-81-3P 676451-82-4P
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676452-19-0P 676452-20-3P 676452-21-4P
676452-22-5P 676452-23-6P 676452-24-7P
676452-25-8P 676452-26-9P 676452-27-0P
676452-28-1P 676452-29-2P 676452-30-5P
676452-31-6P 676452-32-7P 676452-33-8P
676452-34-9P 676452-35-0P 676452-36-1P
676452-37-2P 676452-38-3P 676452-39-4P
676452-40-7P 676452-41-8P 676452-43-0P
676452-45-2P 676452-46-3P 676452-47-4P
676452-48-5P 676452-49-6P 676452-50-9P
676452-51-0P 676452-52-1P 676452-53-2P
676452-54-3P 676452-55-4P 676452-56-5P
676452-57-6P 676452-58-7P 676452-59-8P
676452-60-1P 676452-61-2P 676452-62-3P
676452-63-4P 676452-64-5P 676452-65-6P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
   (preparation of triazaspiro[5.5]undecane derivs. as chemokine receptor CCR5
   antagonists and drugs)
461023-03-0 CAPLUS
Methanesulfonamide, N-[4-[4-[(3R)-1-buty]-3-[(R)-cyclohexylhydroxymethyl]-
2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-,
monohydrochloride (9CI) (CA INDEX NAME)
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RN

CN

RN 461023-63-2 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676449-46-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-(phenylmethyl)-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 676449-47-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-(phenylmethyl)-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676449-48-2 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-(phenylmethyl)-, (3R)-, monomethanesulfonate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 676449-46-0 CMF C26 H39 N3 O3

Absolute stereochemistry.

CM 2

CRN 75-75-2 CMF C H4 O3 S

RN 676449-49-3 CAPLUS

CN Methanesulfonamide, N-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676449-52-8 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-3,5-dimethylphenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676449-57-3 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[(4-methoxyphenyl)methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

HCl

RN 676449-58-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[(4-methylphenyl)methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676449-59-5 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[(4-hydroxyphenyl)methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676449-60-8 CAPLUS

CN Benzoic acid, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676449-61-9 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(dimethylamino)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676449-62-0 CAPLUS

CN Benzenesulfonamide, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676449-63-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(2-hydroxyethyl)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676449-66-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[(4-chlorophenyl)methyl]-3-[(R)-cyclohexylhydroxymethyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676449-67-5 CAPLUS

CN Benzonitrile, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676449-80-2 CAPLUS

CN Methanesulfonamide, N-[4-[4-[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-N-ethyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676449-86-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(cyclohexyloxy)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676449-87-9 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(phenylmethyl)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676449-88-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(2-phenylethenyl)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

● HCl

RN 676449-89-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[(3-phenoxyphenyl)methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 676449-93-7 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-[2-(dimethylamino)ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HC1

RN 676449-95-9 CAPLUS

CN Ethanesulfonamide, N-[4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-01-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(2-phenylethyl)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

HC1

RN 676450-05-8 CAPLUS

CN Benzamide, 4-[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-06-9 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676450-07-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(2-phenylcyclopropyl)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-08-1 CAPLUS

CN Benzenesulfonamide, N-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-4-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676450-11-6 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, methyl ester, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-12-7 CAPLUS

CN Benzoic acid, 4-[4-[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]benzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676450-13-8 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]benzoyl]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-16-1 CAPLUS

CN [1,1'-Biphenyl]-4-carboxylic acid, 4'-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676450-17-2 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-18-3 CAPLUS

CN Benzamide, 4-[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]methyl]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676450-19-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(1H-imidazol-1-yl)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-22-9 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[(4'-hydroxy[1,1'-biphenyl]-3-yl)methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 676450-24-1 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-25-2 CAPLUS

CN Benzamide, 4-[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676450-26-3 CAPLUS

CN Benzoic acid, 4-[[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]benzoyl]amino]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-28-5 CAPLUS

CN Acetamide, N-[4-[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676450-30-9 CAPLUS

CN Benzamide, 4-[[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]benzoyl]amino]methyl]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

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[─]NHMe

RN 676450-32-1 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-(cyclopropylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

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PAGE 1-A

● HCl

PAGE 1-B

RN 676450-33-2 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-2-butynyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

OH H
N
N
N
H
O
Bu-n

● HCl

PAGE 1-B

-C \equiv C-Me

RN 676450-34-3 CAPLUS

CN Benzoic acid, 4-[[3-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-35-4 CAPLUS

CN Benzamide, 4-[[3-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]methyl]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-36-5 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676450-38-7 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-39-8 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-cyclopentyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676450-40-1 CAPLUS

CN Benzoic acid, 4-[[3-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-41-2 CAPLUS

CN Glycine, N-[4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]benzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

10/527,435

PAGE 1-A

● HCl

PAGE 1-B

CO₂H

RN 676450-42-3 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-43-4 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676450-44-5 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-chloro-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-45-6 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-2-chlorophenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676450-46-7 CAPLUS

CN 1,3-Benzenedicarboxylic acid, 5-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-47-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 9-[[4-[(4-bromophenyl)methoxy]phenyl]methyl]-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 676450-49-0 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-[(4-fluorophenyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-50-3 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N,3-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676450-52-5 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-chloro-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-55-8 CAPLUS

CN Benzeneacetamide, 4-bromo-N-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676450-57-0 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-2-chlorophenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-59-2 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-(2-pyridinylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

RN 676450-60-5 CAPLUS

CN Benzoic acid, 4-[2-bromo-4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-62-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(1H-1,2,4-triazol-1-yl)phenyl]methyl]-, dihydrochloride, (3R)- (9CI) (CA INDEX NAME)

●2 HC1

RN 676450-64-9 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-2-(trifluoromethyl)phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-70-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[[4-[(4-chlorophenyl)methoxy]-3-methoxyphenyl]methyl]-3-[(R)-cyclohexylhydroxymethyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 676450-72-9 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-2-(trifluoromethyl)phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-73-0 CAPLUS

CN Benzoic acid, 4-[[[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]amino]carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} OH & H & O \\ \hline R & R & \\ H & N & \\ O & Bu-n & \\ \end{array}$$

RN 676450-74-1 CAPLUS

CN 1,4-Benzenedicarboxamide, N-[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-N'-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

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[─]NHMe

RN 676450-76-3 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[[4-[(2-chloro-6-fluorophenyl)methoxy]phenyl]methyl]-3-[(R)-cyclohexylhydroxymethyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 676450-77-4 CAPLUS

CN [1,1'-Biphenyl]-3-carboxylic acid, 3'-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-80-9 CAPLUS

CN [1,1'-Biphenyl]-4-carboxylic acid, 3'-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-81-0 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3,5-dimethoxy-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-82-1 CAPLUS

CN Benzoic acid, 3-[4-[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-83-2 CAPLUS

CN Benzenecarboximidamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-hydroxy-, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

RN 676450-84-3 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-2-hydroxy-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline R & R & \\ H & N & \\ O & Bu-n & \\ \end{array}$$

● HCl

RN 676450-85-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[4-(2,5-dihydro-5-thioxo-1,2,4-oxadiazol-3-yl)phenoxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-86-5 CAPLUS

CN Benzoic acid, 4-[[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]amino]carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-87-6 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]benzoyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-88-7 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]benzoyl]amino]-3-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-89-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[4-(1H-tetrazol-5-yl)phenoxy]phenyl]methyl]-, dihydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HC1

RN 676450-90-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[4-(2,5-dihydro-5-oxo-1,2,4-thiadiazol-3-yl)phenoxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 676450-91-2 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[4-(2,5-dihydro-5-oxo-1,2,4-oxadiazol-3-yl)phenoxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-92-3 CAPLUS

CN Benzoic acid, 3-[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]benzoyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676450-93-4 CAPLUS

CN Benzoic acid, 4-[2-[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]amino]-2-oxoethyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-94-5 CAPLUS

CN Benzoic acid, 2-[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]benzoyl]amino]-5-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676450-95-6 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-3-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-96-7 CAPLUS

CN Benzoic acid, 4-[[[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]amino]carbonyl]-3-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676450-97-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(2,4-dimethoxyphenoxy)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676450-98-9 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]methyl]-3-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676450-99-0 CAPLUS

CN Benzoic acid, 4-[[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]benzoyl]methylamino]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-00-6 CAPLUS

CN Benzonitrile, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676451-01-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[4-(2-oxido-3H-1,2,3,5-oxathiadiazol-4-yl)phenoxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-03-9 CAPLUS

CN Benzoic acid, 4-[[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]benzoyl]amino]methyl]-3-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676451-04-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(4-hydroxy-2-methoxyphenoxy)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-05-1 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676451-06-2 CAPLUS

CN Methanesulfonamide, N-[4-[4-[((3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxyphenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-07-3 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-ethoxy-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676451-08-4 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-2-hydroxy-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-09-5 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(3,5-dimethoxyphenoxy)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 676451-10-8 CAPLUS

CN Acetamide, N-[4-[4-[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxyphenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-11-9 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[4-(1,1-dimethylethyl)phenoxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-12-0 CAPLUS

CN Benzoic acid, 3-[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-2-(1-oxopropoxy)-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676451-13-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(2-methoxyphenoxy)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-14-2 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[4-(trifluoromethoxy)phenoxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 676451-15-3 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3,5-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-16-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 9-[[4-(4-bromophenoxy)phenyl]methyl]-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 676451-18-6 CAPLUS

CN Benzoic acid, 2-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-5-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-20-0 CAPLUS

CN Benzoic acid, 2-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-21-1 CAPLUS

CN Benzoic acid, 2-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-ethyl-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676451-28-8 CAPLUS

CN Benzoic acid, 4-[4-[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-methyl-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-30-2 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-[2-[(methylsulfonyl)amino]ethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

HCl

RN 676451-32-4 CAPLUS

CN Methanesulfonamide, N-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-methyl-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-33-5 CAPLUS

CN Methanesulfonamide, N-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-ethyl-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676451-35-7 CAPLUS

CN Methanesulfonamide, N-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-37-9 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-methyl-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 676451-39-1 CAPLUS

CN Methanesulfonamide, N-[4-[4-[((3R)-3-[(R)-cyclohexylhydroxymethyl]-1-ethyl-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-41-5 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-43-7 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2,2-dimethylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676451-45-9 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2,2-dimethylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-47-1 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-(3-hydroxybutyl)-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676451-49-3 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cycloheptylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-51-7 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cycloheptylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676451-53-9 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxytricyclo[3.3.1.13,7]dec-1-ylmethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-54-0 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxytricyclo[3.3.1.13,7]dec-1-ylmethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 676451-55-1 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxyphenylmethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-56-2 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclopropylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-57-3 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclopropylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676451-58-4 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-59-5 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 676451-60-8 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-3-furanylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-61-9 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-3-furanylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-62-0 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-(2,3-dihydro-1,4-benzodioxin-6-yl)hydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

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● HCl

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RN 676451-63-1 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-(2,3-dihydro-1,4-benzodioxin-6-yl)hydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline R & R & N \\ \hline O & Bu-n \end{array}$$

● HCl

RN 676451-64-2 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(1R)-2-cyclohexyl-1-hydroxyethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676451-65-3 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-2-cyclohexyl-1-hydroxyethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-66-4 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-(phenylmethyl)-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 676451-67-5 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-3-phenylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-68-6 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-3-phenylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-69-7 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-(tetrahydro-2H-pyran-4-yl)ethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676451-70-0 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-(tetrahydro-2H-pyran-4-yl)ethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-71-1 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-3-methylbutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 676451-72-2 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclobutylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-73-3 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-3-methylbutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-74-4 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclobutylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676451-75-5 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methyl-2-phenylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-76-6 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methyl-2-phenylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 676451-77-7 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-1,1-dioxido-2H-thiopyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-78-8 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-pentyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-79-9 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-pentyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676451-80-2 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-81-3 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[[4-(4-chlorophenoxy)phenyl]methyl]-3-[(R)-hydroxy(tetrahydro-1,1-dioxido-2H-thiopyran-4-yl)methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 676451-82-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-hydroxy(tetrahydro-1,1-dioxido-2H-thiopyran-4-yl)methyl]-9-[[4-(4-methoxyphenoxy)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-83-5 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-(cyclopropylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

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RN 676451-84-6 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-

hydroxy(tetrahydro-2H-pyran-4-y1)methyl]-9-[[4-(4-methoxyphenoxy)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HC1

RN 676451-85-7 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-2-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-86-8 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-3-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676451-87-9 CAPLUS

CN Methanesulfonamide, N-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-88-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-9-[(4-phenoxyphenyl)methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 676451-89-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[[4-(4-hydroxyphenoxy)phenyl]methyl]-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-90-4 CAPLUS

CN Carbamic acid, [4-[[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]phenyl]-, methyl ester, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-91-5 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676451-92-6 CAPLUS

CN Benzenesulfonamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-93-7 CAPLUS

CN Benzeneacetamide, N-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-4-fluoro-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676451-94-8 CAPLUS

CN Benzonitrile, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-95-9 CAPLUS

CN Benzonitrile, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676451-96-0 CAPLUS

CN Benzamide, 4-[[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-97-1 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-2-hydroxy-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676451-98-2 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[[4-(4-chlorophenoxy)phenyl]methyl]-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676451-99-3 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-y1)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-y1]methyl]phenoxy]-3-methoxy-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-00-9 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-01-0 CAPLUS

CN Benzamide, 4-[[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-02-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-9-[(4-methoxyphenyl)methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 676452-03-2 CAPLUS

CN Benzamide, 4-[[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]methyl]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} & OH & H & O \\ \hline & H & N & \\ & O & Bu-n & \\ \hline & O & NHMe \\ \hline \end{array}$$

● HCl

RN 676452-04-3 CAPLUS

CN Acetamide, N-[4-[[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-05-4 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]benzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-06-5 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-chloro-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-07-6 CAPLUS

CN Acetamide, N-[4-[4-[((3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-08-7 CAPLUS

CN Benzamide, 4-[[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-09-8 CAPLUS

CN Benzonitrile, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-10-1 CAPLUS

CN Benzoic acid, 4-[4-[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-(phenylmethyl)-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-11-2 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-(phenylmethyl)-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-3-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-12-3 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[[4-(2,4-dimethoxyphenoxy)phenyl]methyl]-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 676452-13-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[[4-(4-hydroxy-2-methoxyphenoxy)phenyl]methyl]-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-14-5 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-chloro-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-15-6 CAPLUS

CN Benzamide, 4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-(phenylmethyl)-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-16-7 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-17-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-9-[[4-(4-methoxybenzoyl)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline R & R & N \\ \hline O & Bu-n & O \end{array}$$

● HCl

RN 676452-18-9 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-[2-(diethylamino)ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)

10/527,435

PAGE 1-A

OH H
N
N
N
H
O
Bu-n

● HCl

PAGE 1-B

NEt₂

RN 676452-19-0 CAPLUS

CN Benzamide, 4-[[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline R & R & N \\ \hline O & Bu-n \\ \end{array}$$

● HCl

RN 676452-20-3 CAPLUS

CN Benzamide, 4-[[[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]benzoyl]amino]methyl]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-21-4 CAPLUS

CN Benzamide, 4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-pentyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-22-5 CAPLUS

CN Benzoic acid, 4-[[[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-pentyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]benzoyl]amino]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

10/527,435

$$\begin{array}{c|c} & & & \\ & & & \\ R & & & \\ R & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\$$

● HCl

RN 676452-23-6 CAPLUS

CN Glycine, N-[4-[4-[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-pentyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]benzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

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[─]CO₂H

RN 676452-24-7 CAPLUS

CN Benzeneacetamide, N-[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-4-fluoro-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-25-8 CAPLUS

CN Methanesulfonamide, N-[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-26-9 CAPLUS

CN Benzamide, 4-[[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]methyl]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-27-0 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-28-1 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-3-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-29-2 CAPLUS

CN Benzoic acid, 2-[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-5-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline R & R & N \\ \hline O & Bu-n & CO_2H \\ \end{array}$$

● HCl

RN 676452-30-5 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-2-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-31-6 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-1-butyl-3-[(R)-cycloheptylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-32-7 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cycloheptylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-33-8 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cycloheptylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-chloro-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-34-9 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cycloheptylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-35-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclopentylhydroxymethyl]-9-[(4-methoxyphenyl)methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-36-1 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-37-2 CAPLUS

CN Methanesulfonamide, N-[4-[[(3R)-1-butyl-3-[(R)-cycloheptylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-38-3 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cycloheptylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-39-4 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cycloheptylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]benzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-40-7 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-1-butyl-3-[(R)-cycloheptylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]benzoyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-41-8 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-1-butyl-3-[(R)-cycloheptylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-3-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-43-0 CAPLUS

CN Benzoic acid, 4-[[[4-[[(3R)-1-butyl-3-[(R)-cycloheptylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]benzoyl]methylamino]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-45-2 CAPLUS

CN Benzamide, 4-[[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-46-3 CAPLUS

CN Acetamide, N-[4-[[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-47-4 CAPLUS

CN Benzoic acid, 4-[[[4-[[(3R)-1-butyl-3-[(R)-cycloheptylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]benzoyl]amino]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

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- CO2H

RN 676452-48-5 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-ethoxy-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-49-6 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-2-hydroxy-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-50-9 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]thio]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-51-0 CAPLUS

CN Glycine, N-[4-[4-[[(3R)-1-butyl-3-[(R)-cycloheptylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]benzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

PAGE 1-B

CO₂H

RN 676452-52-1 CAPLUS

CN Benzoic acid, 4-[[[[4-[[(3R)-1-butyl-3-[(R)-cycloheptylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]amino]carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

PAGE 1-B

-- CO2H

RN 676452-53-2 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-54-3 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-chloro-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-55-4 CAPLUS

CN Morpholine, 4-[4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]benzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-56-5 CAPLUS

CN Pyrrolidine, 1-[4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]benzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-57-6 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-(1-methylethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-58-7 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-(2-hydroxyethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

PAGE 1-B

__ OH

RN 676452-59-8 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-(2-methoxyethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

PAGE 1-B

__OMe

RN 676452-60-1 CAPLUS

CN Morpholine, 4-[4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxybenzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-61-2 CAPLUS

CN Pyrrolidine, 1-[4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxybenzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-62-3 CAPLUS

CN Benzamide, 4-[4-[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-N-(1-methylethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

10/527,435

● HCl

RN 676452-63-4 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-(2-hydroxyethyl)-3-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

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— ОН

RN 676452-64-5 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-N-(2-methoxyethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A

● HCl

PAGE 1-B

__OMe

RN 676452-65-6 CAPLUS

CN Benzamide, 4-[[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]methyl]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

IT 676452-66-7P 676452-67-8P 676452-68-9P 676452-69-0P 676452-70-3P 676452-71-4P 676452-72-5P 676452-73-6P 676452-74-7P 676452-75-8P 676452-76-9P 676452-77-0P 676452-78-1P 676452-79-2P 676452-80-5P

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676452-81-6P 676452-82-7P 676452-83-8P
676452-84-9P 676452-85-0P 676452-86-1P
676452-87-2P 676452-88-3P 676452-89-4P
676452-90-7P 676452-91-8P 676452-92-9P
676452-93-0P 676452-94-1P 676452-95-2P
676452-96-3P 676452-97-4P 676452-98-5P
676452-99-6P 676453-00-2P 676453-01-3P
676453-02-4P 676453-03-5P 676453-04-6P
676453-05-7P 676453-06-8P 676453-08-0P
676453-09-1P 676453-11-5P 676453-12-6P
676453-13-7P 676453-14-8P 676453-15-9P
676453-16-0P 676453-17-1P 676453-18-2P
676453-19-3P 676453-20-6P 676453-21-7P
676453-22-8P 676453-23-9P 676453-25-1P
676453-26-2P 676453-27-3P 676453-55-7P
676453-82-0P 676453-91-1P 676453-92-2P
676453-93-3P 676453-94-4P 676453-95-5P
676453-96-6P 676453-97-7P 676453-98-8P
676453-99-9P 676454-00-5P 676454-01-6P
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676454-05-0P 676454-06-1P 676454-07-2P
676454-08-3P 676454-09-4P 676454-10-7P
676454-11-8P 676454-12-9P 676454-13-0P
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676454-20-9P 676454-21-0P 676454-22-1P
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676454-30-1P 676454-31-2P 676454-32-3P
676454-33-4P 676454-34-5P 676454-35-6P
676454-36-7P 676454-37-8P 676454-38-9P
676454-39-0P 676454-40-3P 676454-41-4P
676454-42-5P 676454-43-6P 676454-45-8P
676454-46-9P 676454-47-0P 676454-50-5P
676454-51-6P 676454-52-7P 676454-55-0P
676454-56-1P 676454-57-2P 676454-58-3P
676454-59-4P 676454-60-7P 676454-61-8P
676454-62-9P 676454-63-0P 676454-64-1P
676454-68-5P 676454-69-6P 676454-70-9P
676454-71-0P 676454-78-7P 676454-79-8P
676454-82-3P 676454-83-4P 676454-89-0P
676454-90-3P 676454-91-4P 676454-92-5P
676454-93-6P 676454-94-7P 676454-95-8P
676454-96-9P 676455-00-8P 676455-02-0P
676455-03-1P 676455-04-2P 676455-05-3P
676455-06-4P 676455-07-5P 676455-08-6P
676455-09-7P 676455-10-0P 676455-11-1P
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676455-24-6P 676455-25-7P 676455-26-8P
676465-10-4P 676465-11-5P 676465-13-7P
676465-15-9P 676465-17-1P 676465-18-2P
676465-19-3P 676465-21-7P 676465-22-8P
676465-23-9P 676465-24-0P 676465-25-1P
676465-26-2P 676465-27-3P 676465-28-4P
676465-29-5P 676465-30-8P 676465-31-9P
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676465-32-0P 676465-33-1P 676465-34-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of triazaspiro[5.5]undecane derivs. as chemokine receptor CCR5 antagonists and drugs)

RN 676452-66-7 CAPLUS

CN Benzamide, 4-[[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-67-8 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-chloro-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline R & R & N \\ \hline O & Bu-n & CO_2H \\ \hline \end{array}$$

● HCl

RN 676452-68-9 CAPLUS

CN Acetamide, N-[4-[4-[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-

methoxyphenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-69-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 9-[[4-(4-bromophenoxy)phenyl]methyl]-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-70-3 CAPLUS

CN Morpholine, 4-[4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]benzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-71-4 CAPLUS

CN Pyrrolidine, 1-[4-[4-[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]benzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-72-5 CAPLUS

CN Acetamide, N-[4-[[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-3-chloro-5-methoxyphenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-73-6 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-74-7 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]benzoyl]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} OH & H & O \\ \hline R & R & N \\ \hline O & Bu-n & O \\ \hline \end{array}$$

RN 676452-75-8 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]benzoyl]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-76-9 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-(cyclopropylmethyl)-3-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

10/527,435

PAGE 1-A

OH H
N
MeO
N
H
O
Bu-n

● HCl

PAGE 1-B

RN 676452-77-0 CAPLUS

CN Benzamide, 4-[[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-N-(cyclopropylmethyl)-3-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

OH H
N
MeO
N
H
O
Bu-n

● HCl

PAGE 1-B

RN 676452-78-1 CAPLUS

CN Benzamide, 4-[[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-y1)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-y1]methyl]phenyl]methyl]-3-methoxy-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-79-2 CAPLUS

CN Morpholine, 4-[4-[4-[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxybenzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-80-5 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-

methoxy-N-(1-methylethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-81-6 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-N-(2-methylpropyl)-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-82-7 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-N-(2-methoxyethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

10/527,435

PAGE 1-A

OH
R
R
R
N
H
O
OMe

● HCl

PAGE 1-B

OMe

RN 676452-83-8 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-(1-methylethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-84-9 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-(2-methylpropyl)-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-85-0 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-(2-methoxyethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

PAGE 1-B

_ OMe

RN 676452-86-1 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-(2,2-dimethylpropyl)-, monohydrochloride (9CI) (CA INDEX NAME)

10/527,435

PAGE 1-A

OH H
N
N
N
H
O
Bu-n

● HCl

PAGE 1-B

CMe3

RN 676452-87-2 CAPLUS

CN Benzamide, 4-[[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]thio]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline R & R & N \\ \hline O & Bu-n \\ \end{array}$$

● HCl

RN 676452-88-3 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-2-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-89-4 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cycloheptylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-2-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-90-7 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-(2,2-dimethylpropyl)-3-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

10/527,435

● HCl

PAGE 1-B

[─]CMe3

RN 676452-91-8 CAPLUS
CN Benzamide, 4-[[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-N-(cyclopropylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

PAGE 1-B

RN 676452-92-9 CAPLUS

CN Benzamide, 4-[[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-93-0 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxyphenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-94-1 CAPLUS

CN Methanesulfonamide, N-[4-[4-[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-

methoxyphenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN

676452-95-2 CAPLUS
Pyrrolidine, 1-[4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-CN yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3methoxybenzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-96-3 CAPLUS

Benzamide, 4-[[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-CN yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9yl]methyl]phenyl]methyl]-3-chloro-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-97-4 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]benzoyl]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676452-98-5 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676452-99-6 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-2-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676453-00-2 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676453-01-3 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-3-chloro-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676453-02-4 CAPLUS

CN Benzamide, 4-[[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-3-chloro-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676453-03-5 CAPLUS

CN Acetamide, N-[4-[[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-3-chloro-5-methoxyphenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676453-04-6 CAPLUS

CN Methanesulfonamide, N-[4-[[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-3-chlorophenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676453-05-7 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-3-chloro-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676453-06-8 CAPLUS

CN Benzamide, 4-[[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-3-methoxy-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676453-08-0 CAPLUS

CN Benzamide, 4-[[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-N-(cyclopropylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676453-09-1 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxyphenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676453-11-5 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-y1)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-y1]methyl]phenoxy]-3,5-dimethylphenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676453-12-6 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3,5-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676453-13-7 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3,5-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676453-14-8 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3,5-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676453-15-9 CAPLUS

CN Cyclopropaneacetamide, N-[4-[[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676453-16-0 CAPLUS

CN Propanamide, N-[4-[[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]phenyl]-2-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676453-17-1 CAPLUS

CN Butanamide, N-[4-[[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-3-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline R & R & N \\ O & Bu-n \end{array}$$

● HCl

RN 676453-18-2 CAPLUS

CN Cyclopropaneacetamide, N-[4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676453-19-3 CAPLUS

CN Propanamide, N-[4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-2-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676453-20-6 CAPLUS

CN Butanamide, N-[4-[4-[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-3-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676453-21-7 CAPLUS

CN Cyclopropaneacetamide, N-[4-[4-[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxyphenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676453-22-8 CAPLUS

CN Propanamide, N-[4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxyphenyl]-2-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676453-23-9 CAPLUS

CN Butanamide, N-[4-[4-[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxyphenyl]-3-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676453-25-1 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-3-[(1R)-1-hydroxy-2-methylpropyl]-1-(2-methoxyethyl)-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-3-methoxyphenoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676453-26-2 CAPLUS

CN Methanesulfonamide, N-[4-[4-[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-(2-methoxyethyl)-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxyphenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676453-27-3 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-1-ethyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxyphenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676453-55-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(4-methoxybenzoyl)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676453-82-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[(methoxyimino)phenylmethyl]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

RN 676453-91-1 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-(2-butynyl)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676453-92-2 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-3-cyclohexen-1-ylhydroxymethyl]-9-[[4-[4-(methylamino)phenoxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 676453-93-3 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676453-94-4 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-(tetrahydro-4H-pyran-4-ylidene)ethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676453-95-5 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(S)-1,3-dithian-2-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676453-96-6 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-(2,6-dimethylphenyl)hydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676453-97-7 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-3-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676453-98-8 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676453-99-9 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-2-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} OH & H & O & Me \\ \hline R & R & N & O \\ \hline O & Bu-n & O \end{array}$$

RN 676454-00-5 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-01-6 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676454-02-7 CAPLUS

CN Benzenesulfonamide, 4-[4-[[(3R)-1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-03-8 CAPLUS

CN Benzeneacetamide, N-[4-[[(3R)-1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-4-fluoro-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-04-9 CAPLUS

CN Benzamide, 4-[[4-[[(3R)-1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-05-0 CAPLUS

CN Acetamide, N-[4-[[4-[[(3R)-1-buty1-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-06-1 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-2-hydroxy-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676454-07-2 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-9-[[4-(4-methoxyphenoxy)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-08-3 CAPLUS

CN Benzamide, 4-[[4-[[(3R)-1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]methyl]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676454-09-4 CAPLUS

CN Benzoic acid, 2-[4-[[(3R)-1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-5-ethoxy-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-10-7 CAPLUS

CN Acetamide, N-[4-[4-[[(3R)-1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxyphenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676454-11-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-9-[[4-(2,4-dimethoxyphenoxy)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-12-9 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-9-[[4-(4-hydroxy-2-methoxyphenoxy)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 676454-13-0 CAPLUS

CN Benzamide, 2-[4-[[(3R)-1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-[2-(dimethylamino)ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HC1

RN 676454-14-1 CAPLUS

CN Acetamide, N-[4-[4-[[(3R)-1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676454-15-2 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-16-3 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-chloro-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-17-4 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-18-5 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-(cyclopropylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

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RN 676454-19-6 CAPLUS

CN Benzamide, 4-[4-[((3R)-1-butyl-3-[(R)-3-cyclopenten-1-y]]-2,5-

dioxo-1,4,9-triazaspiro[5.5]undec-9-y1]methy1]benzoy1]-N-methy1-,
monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-20-9 CAPLUS

CN Benzamide, 4-[[4-[[(3R)-1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-21-0 CAPLUS

CN Methanesulfonamide, N-[4-[4-[((3R)-1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxyphenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676454-22-1 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3,5-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-27-6 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-(2-propynyl)-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676454-28-7 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-[(1-oxido-3-pyridinyl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-29-8 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-[(1-oxido-2-pyridinyl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676454-30-1 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-[2-(dimethylamino)ethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, dihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HC1

RN 676454-31-2 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-ethyl-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676454-32-3 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-(cyclopropylmethyl)-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-33-4 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-(2-phenylethyl)-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676454-34-5 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-methyl-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-35-6 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-(3-methylbutyl)-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676454-36-7 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-[2-(3-pyridinyl)ethyl]-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, dihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HC1

RN 676454-37-8 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-[2-(1-oxido-3-pyridinyl)ethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676454-38-9 CAPLUS

CN Carbamic acid, [2-[(3R)-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[4-[(methylamino)carbonyl]phenoxy]phenyl]methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-1-yl]ethyl]-, 2-propenyl ester, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-39-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 3-[(R)-cyclohexylhydroxymethyl]-1-ethyl-9-(phenylmethyl)-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 676454-40-3 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 3-[(R)-cyclohexylhydroxymethyl]-1-methyl-9-(phenylmethyl)-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-41-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-1-propanamide, 3-[(R)-cyclohexylhydroxymethyl]-N-methyl-9-[[4-[4-[(methylamino)carbonyl]phenoxy]phenyl]methyl]-2,5-dioxo-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 676454-42-5 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-1-butanamide, 3-[(R)-cyclohexylhydroxymethyl]-N-methyl-9-[[4-[4-[(methylamino)carbonyl]phenoxy]phenyl]methyl]-2,5-dioxo-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-43-6 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-(2-cyanoethyl)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676454-45-8 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-hexyl-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-46-9 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-heptyl-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676454-47-0 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-(2,2,2-trifluoroethyl)-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-50-5 CAPLUS

CN Methanesulfonamide, N-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676454-51-6 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-pentyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-52-7 CAPLUS

CN Methanesulfonamide, N-[4-[4-[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676454-55-0 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-(2-butynyl)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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● HCl

RN 676454-56-1 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-(3-butenyl)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-57-2 CAPLUS

CN Benzamide, 4-[4-[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-(2-ethylbutyl)-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-58-3 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-(3-methoxypropyl)-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676454-59-4 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-(2-ethoxyethyl)-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-60-7 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-(2,2,3,3,3-pentafluoropropyl)-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

HCl

RN 676454-61-8 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-(cyclobutylmethyl)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-62-9 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-(2E)-2-butenyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

RN 676454-63-0 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-[(2-methylcyclopropyl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-64-1 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-thiopyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676454-68-5 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-(2-aminoethyl)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-69-6 CAPLUS

CN Carbamic acid, [2-[(3R)-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[4-[(methylamino)carbonyl]phenoxy]phenyl]methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-1-yl]ethyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)

RN 676454-70-9 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-[2-(acetylamino)ethyl]-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-71-0 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-(2-aminoethyl)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-(CA INDEX NAME)

Absolute stereochemistry.

RN 676454-78-7 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-ethyl-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxyphenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-79-8 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-1-ethyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxyphenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676454-82-3 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-(2-hydroxyethyl)-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxyphenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676454-83-4 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-1-(2-butynyl)-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxyphenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 2-A

HC1

RN 676454-89-0 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-chloro-N-methyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 676454-90-3 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[4-(2,5-dihydro-5-oxo-1,2,4-thiadiazol-3-yl)phenoxy]phenyl]methyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 676454-91-4 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-N-(2-methoxyethyl)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

__OMe

RN 676454-92-5 CAPLUS

CN Methanesulfonamide, N-[4-[4-[((3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxyphenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 676454-93-6 CAPLUS

CN Pyrrolidine, 1-[4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxybenzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 676454-94-7 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxyphenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 676454-95-8 CAPLUS

CN Butanamide, N-[4-[[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-

yl]methyl]phenyl]methyl]phenyl]-3-methyl- (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline R & R & N \\ O & Bu-n \end{array}$$

RN 676454-96-9 CAPLUS

CN Butanamide, N-[4-[[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-3-methoxyphenyl]-3-methyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 676455-00-8 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-3-cyclohexen-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 676455-02-0 CAPLUS

CN Benzamide, 4-[4-[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-pentyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl- (CA INDEX NAME)

RN 676455-03-1 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-(cyclopropylmethyl)-(CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

RN 676455-04-2 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy- (CA INDEX NAME)

RN 676455-05-3 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-N-methyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 676455-06-4 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-3-methoxy-(CA INDEX NAME)

Absolute stereochemistry.

RN 676455-07-5 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-N,N-dimethyl-(CA INDEX NAME)

Absolute stereochemistry.

RN 676455-08-6 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-ethoxy- (CA

INDEX NAME)

Absolute stereochemistry.

RN 676455-09-7 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3,5-dimethyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 676455-10-0 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-pentyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy- (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline R & R & N \\ \hline O & (CH_2)_4 & Me \\ \hline O & OMe \\ \end{array}$$

RN 676455-11-1 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy- (CA INDEX NAME)

RN 676455-12-2 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-(cyclopropylmethyl)- (CA INDEX NAME)

Absolute stereochemistry.

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RN 676455-13-3 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-N,N-dimethyl-(CA INDEX NAME)

RN 676455-14-4 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cycloheptylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy- (CA INDEX NAME)

Absolute stereochemistry.

RN 676455-15-5 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy- (CA INDEX NAME)

Absolute stereochemistry.

RN 676455-16-6 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-ethoxy- (CA INDEX NAME)

Absolute stereochemistry.

RN 676455-17-7 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-

yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-(cyclopropylmethyl)-3-methoxy- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B



RN 676455-18-8 CAPLUS

CN Benzamide, 4-[[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]methyl]-3-methoxy-N-methyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 676455-19-9 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-y1)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-y1]methyl]phenoxy]-3-methoxy-N-(1-methylethyl)- (CA INDEX NAME)

RN 676455-20-2 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-N-(2-methylpropyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 676455-21-3 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-(2,2-dimethylpropyl)-3-methoxy- (CA INDEX NAME)

PAGE 1-B

CMe3

RN 676455-22-4 CAPLUS

CN Propanamide, N-[4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-2-methyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 676455-23-5 CAPLUS

CN Butanamide, N-[4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-3-methyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 676455-24-6 CAPLUS

CN Propanamide, N-[4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxyphenyl]-2-methyl- (CA INDEX NAME)

RN 676455-25-7 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 676455-26-8 CAPLUS

CN Benzoic acid, 4-[4-[(3R)-1-butyl-3-[(R)-3-cyclopenten-1-ylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-ethoxy- (CA INDEX NAME)

Absolute stereochemistry.

RN 676465-10-4 CAPLUS

CN Benzoic acid, 4-[4-[[(3S)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676465-11-5 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(S)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676465-13-7 CAPLUS

CN Benzenemethanesulfonamide, N-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-4-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline R & R & \\ H & N & \\ O & Bu-n & H \end{array}$$

RN 676465-15-9 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-2-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676465-17-1 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-2-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O & Me \\ \hline R & R & N & O \\ \hline O & Bu-n & O \end{array}$$

● HCl

RN 676465-18-2 CAPLUS

CN Benzoic acid, 4-[[3-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]benzoyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676465-19-3 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-2-ethyl-1-hydroxybutyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxy-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676465-21-7 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-(3-butynyl)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676465-22-8 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-1-butyl-3-[(1S)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-3-methoxyphenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 676465-23-9 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(trans-4-methoxycyclohexyl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676465-24-0 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(trans-4-methoxycyclohexyl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676465-25-1 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(trans-4-methylcyclohexyl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676465-26-2 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(trans-4-methylcyclohexyl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676465-27-3 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(cis-4-hydroxycyclohexyl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676465-28-4 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(cis-4-hydroxycyclohexyl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676465-29-5 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(cis-4-methylcyclohexyl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676465-30-8 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-(cis-4-ethoxycyclohexyl)hydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676465-31-9 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-(trans-4-ethoxycyclohexyl)hydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676465-32-0 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-(cis-4-ethoxycyclohexyl)hydroxymethy 1]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 676465-33-1 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-(trans-4-ethoxycyclohexyl)hydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 676465-34-2 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(cis-4-methylcyclohexyl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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      WO 2003-US28697
                                W
                                       20030912
AΒ
      The present invention relates to methods for inducing increased levels and
      availability of \beta-chemokines by administering to a subject at least 1
      G1-phase arresting compound, wherein the increased levels and availability
      of \beta-chemokines block chemokine/viral receptors thereby preventing or
      treating viral infections. The secretion of the \beta-chemokines by
      peripheral blood mononuclear cells in response to the activation started
      before lymphocytes entered the DNA synthesis phase of the cell cycle (S
      phase), reaches a peak by day 3 or 7 and then declined to low levels. The
      antivial activity is due the presence of the \beta-chemokines RANTES, and
      MIP proteins.
ΙT
      461443-59-4
      RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
      (Biological study); USES (Uses)
          (G1-phase arresting compds. for inducing increased levels of
          \beta-chemokines)
RN
      461443-59-4 CAPLUS
      Benzoic acid, 4-[4-[(3R)-1-buty1-3-[(R)-cyclohexylhydroxymethyl]-2,5-
CN
      dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)
```

L20 ANSWER 55 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2004:252197 CAPLUS

DN 140:281350

TI Spiro compounds for inhibiting the first-pass effect

IN Harris, James W.

PA Bioavailability System, LLC, USA

SO U.S. Pat. Appl. Publ., 133 pp., Cont.-in-part of U.S. Ser. No. 793,416. CODEN: USXXCO

DT Patent

LA English

FAN.CNT 5

1 7 11 1	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	US 2004058982	A1	20040325	US 2003-422848	20030425
	US 6248776	В1	20010619	US 1999-251467	19990217
	US 6476066	B1	20021105	US 2001-793416	20010227
	US 2005214366	A1	20050929	US 2005-81024	20050316
	US 7230027	B2	20070612		
	US 2007244188	A1	20071018	US 2007-696198	20070404
PRAI	US 1999-251467	A3	19990217		
	US 2001-793416	A2	20010227		
	US 1997-56382P	P	19970826		
	US 1997-997259	A2	19971223		
	US 2003-422848	В1	20030425		
	US 2005-81024	A1	20050316		

OS MARPAT 140:281350

AB Compns., methods, etc. for addressing the first-pass effect are presented. An example compound prepared was I. Also processing citrus oils to obtain the compds. is given as examples as well as assessment of human cytochrome P 450-mediated biotransformation.

IT 461443-59-4

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (spiro compds. for inhibiting the first-pass effect)

RN 461443-59-4 CAPLUS

CN Benzoic acid, 4-[4-[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

L20 ANSWER 56 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN

```
2003:334910 CAPLUS
AN
     138:331734
DN
     Drugs comprising combination of triazaspiro[5.5]undecane derivative with
TI
     cytochrome p450 isozyme 3a4 inhibitor and/or P-glycoprotein inhibitor
IN
     Imawaka, Haruo; Shibayama, Shiro; Takaoka, Yoshikazu
PA
     Ono Pharmaceutical Co., Ltd., Japan
SO
     PCT Int. Appl., 183 pp.
     CODEN: PIXXD2
DT
     Patent
     Japanese
LA
FAN.CNT 1
                         KIND DATE
                                         APPLICATION NO.
     PATENT NO.
                         ____
                                 _____
                                             _____
                                 20030501 WO 2002-JP2552
     WO 2003035074
                                                                      20020318
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             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL,
             PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,
             UG, US, UZ, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     CA 2461545
                          A1
                               20030501
                                           CA 2002-2461545
                                                                       20020318
                                              AU 2002-238945
     AU 2002238945
                           Α1
                                 20030506
                                                                       20020318
                                 20040721
     EP 1438962
                           Α1
                                             EP 2002-705299
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         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
                               20050126 CN 2002-820391
                                                                       20020318
     CN 1571671
                          A
                                              BR 2002-13372
     BR 2002013372
                          Α
                                 20050201
                                                                       20020318
     HU 2005000028
                          A2
                                20050428
                                             HU 2005-28
                                                                       20020318
     NO 2004001618
                         A 20040722
                                             NO 2004-1618
                                                                      20040421
     MX 2004PA03816
                          Α
                               20040730
                                             MX 2004-PA3816
                                                                      20040422
                         A 20050511
A 20011023
W 20020318
     ZA 2004003086
                                             ZA 2004-3086
                                                                       20040422
PRAI JP 2001-324435
     WO 2002-JP2552
OS
     MARPAT 138:331734
AB
     Drugs comprising a combination of triazaspiro[5.5]undecane derivs.
     represented by the following general formula (I): I wherein each symbol is
     as will be defined hereinafter; quaternary ammonium salts thereof,
     N-oxides of the same or nontoxic salts of the same with at least one
     cytochrome P 450 isoenzyme 3A4 inhibitor and/or at least one
     P-glycoprotein inhibitor. The drugs comprising such a combination,
     wherein the bioavailability of the compds. represented by the general
     formula I is elevated, are efficaciously usable as oral prepns. in
     treating various diseases.
ΙT
     461443-59-4
     RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (drugs comprising combination of triazaspiro[5,5]undecane derivative with
        cytochrome P 450 isoenzyme 3a4 inhibitor and/or P-glycoprotein
        inhibitor)
RN
     461443-59-4 CAPLUS
CN
     Benzoic acid, 4-[4-[(3R)-1-buty1-3-[(R)-cyclohexylhydroxymethy1]-2,5-
     dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)
```

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L20 ANSWER 57 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
      2002:736255 CAPLUS
AN
DN
      137:263065
      Preparation of triazaspiro[5,5]undecane derivatives as active ingredients
TI
      in remedies for inflammatory diseases
IN
      Habashita, Hiromu; Hamano, Shinichi; Shibayama, Shiro; Takaoka, Yoshikazu
PA
      Ono Pharmaceutical Co., Ltd., Japan
      PCT Int. Appl., 379 pp.
SO
      CODEN: PIXXD2
DT
      Patent
      Japanese
LA
FAN.CNT 1
     WO 2002074770 A1 20020926 WO 2000 TROSE
      PATENT NO.
                       KIND DATE APPLICATION NO.
РΤ
          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
               CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL,
               PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,
               UG, US, UZ, VN, YU, ZA, ZM, ZW
          RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
               BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                       A1 20020926 CA 2002-2440264 20020318
A1 20021003 AU 2002-238947 20020318
      CA 2440264
                            A1
                                 20021003
      AU 2002238947
                            В2
                                 20071018
      AU 2002238947
      EP 1378510
                            A1
                                    20040107
                                                EP 2002-705301
                            A1 20040107
B1 20060607
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      EP 1378510
          R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
               IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
      BR 2002008167 A 20040309 BR 2002-8167
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      CN 1518551
                            A
                                   20040804
                                               CN 2002-810082
                                                                            20020318
                            B2 20040825 JP 2002-573779
      JP 3558079
                                                                           20020318
                         A2 20040830 HU 2004-229
A 20050324 NZ 2002-528249
      HU 2004000229
                                                                            20020318
      NZ 528249
                                  20050324 NZ 2002-528249
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                            A2 20060125
                                                 EP 2005-105154
      EP 1619194
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                    A3 20060607
      EP 1619194
          R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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      RU 2269528
                                    20060210
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      AT 328884
                                   20060615 AT 2002-705301
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      PT 1378510
                                                PT 2002-705301
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                   T3 20070301
B 20060501
      ES 2266452
                                                 ES 2002-2705301
                                                                           20020318
TW 254047

ZA 2003007167

NO 2003004148

MX 2003PA08529

US 2004082584

US 7053090

JP 2004196822

US 2005215557

A1 20050929

US 7262193

PRAI JP 2001-79610

JP 2001-160251

EP 2002-705301

JP 2002-573779

A3 20020318

JP 2002-573779

A3 20020318
      TW 254047
                                                 TW 2002-91105129
                                                                           20020319
                                                  ZA 2003-7167
NO 2003-4148
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                                                                            20030917
                                                  MX 2003-PA8529
US 2003-472555
                                                                            20030919
                                                                            20030922
                                                  JP 2004-66592
                                                  US 2005-135272
                                                                            20040310
                                                                            20050524
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WO 2002-JP2554 W 20020318 US 2003-472555 A1 20030922

OS MARPAT 137:263065

AB Title compds. [I; R1 = arylalkyl, nitrogen-containing-heterocyclylalkyl; R2 = alkyl, alkynyl; R3 = H, alkyl; R4 = H, alkyl; R3R4 = CHR; R = alkyl; R5 = H, alkyl], quaternary ammonium salts thereof, N-oxides thereof, nontoxic salts thereof, and drugs containing the same as the active ingredient are prepared Title compds. I, inhibiting the effects of chemokine/chemokine receptor, are useful in preventing and/or treating various inflammatory diseases, asthma, atopic dermatitis, urticaria, allergic diseases, nephritis, nephropathy, hepatitis, arthritis, rheumatoid arthritis, tumor metastasis control, etc. Thus, the title compound II was prepared from (2R,3R)-2-(tert-butoxycarbonylamino)-3-hydroxy-4-methylpentanoic acid, n-butylamine, N-benzyl-4-piperidone, and benzylisonitrile via intramol. cyclocondensation.

IT 461019-79-4P 461023-63-2P 461024-09-9P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of triazaspiro[5.5]undecane derivs. as active ingredients in remedies for inflammatory diseases)

RN 461019-79-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-(phenylmethyl)-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c}
OH & O \\
I-Pr & R & N \\
H & N \\
O & Bu-n
\end{array}$$

RN 461023-63-2 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

HC1

RN 461024-09-9 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, methyl ester, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

```
ΙT
     461019-99-8P 461020-01-9P 461020-03-1P
     461020-05-3P 461020-07-5P 461020-09-7P
     461020-11-1P 461020-13-3P 461020-15-5P
     461020-17-7P 461020-23-5P 461020-25-7P
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     461020-41-7P 461020-43-9P 461020-60-0P
     461020-66-6P 461020-68-8P 461020-82-6P
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    461021-04-5P 461021-06-7P 461021-14-7P
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461444-46-2P 461444-47-3P 461444-50-8P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
   (preparation of triazaspiro[5.5]undecane derivs. as active ingredients in
   remedies for inflammatory diseases)
461019-99-8 CAPLUS
1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-
methylpropy1]-9-[[4-(4-methoxyphenoxy)phenyl]methyl]-, monohydrochloride,
(3R) - (9CI) (CA INDEX NAME)
```

Absolute stereochemistry.

RN CN

● HCl

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RN 461020-01-9 CAPLUS
CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(3-methoxyphenoxy)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)
```

RN 461020-03-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[[4-(4-fluorophenoxy)phenyl]methyl]-3-[(1R)-1-hydroxy-2-methylpropyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461020-05-3 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[[4-(4-chlorophenoxy)phenyl]methyl]-3-[(1R)-1-hydroxy-2-methylpropyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 461020-07-5 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 9-[(4-benzoylphenyl)methyl]-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461020-09-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(hydroxyphenylmethyl)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline i-Pr & R & R & N \\ O & Bu-n & Ph \end{array}$$

● HCl

RN 461020-11-1 CAPLUS

CN Morpholine, 4-[4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]benzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 461020-13-3 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[(6-methyl-3-pyridinyl)oxy]phenyl]methyl]-, dihydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HC1

RN 461020-15-5 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[(1-oxido-3-pyridinyl)oxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 461020-17-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[(4-hydroxy-1-piperidinyl)methyl]phenyl]methyl]-, dihydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HC1

RN 461020-23-5 CAPLUS

CN Benzenesulfonamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461020-25-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[4-(methylthio)phenoxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 461020-27-9 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[4-(methylsulfonyl)phenoxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461020-29-1 CAPLUS

CN Benzonitrile, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 461020-31-5 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(phenylthio)phenyl]methyl]-, monohydrochloride, (3R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461020-41-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[(6-methyl-1-oxido-3-pyridinyl)oxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline & H & N & Me \\ \hline & O & Bu-n & O \\ \end{array}$$

● HCl

RN 461020-43-9 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(4-hydroxyphenoxy)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 461020-60-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[4-(methylsulfinyl)phenoxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461020-66-6 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 461020-68-8 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline i-Pr & R & R \\ \hline & N & N \\ \hline & O & Bu-n \\ \end{array}$$

● HCl

RN 461020-82-6 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-[2-(dimethylamino)ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HC1

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__NMe₂

RN 461020-84-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(3-pyridinyloxy)phenyl]methyl]-, dihydrochloride, (3R)- (9CI) (CA INDEX NAME)

●2 HC1

RN 461020-98-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[[4-(cyclohexyloxy)phenyl]methyl]-3-[(1R)-1-hydroxy-2-methylpropyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461021-00-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[(tetrahydro-2H-pyran-4-yl)oxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 461021-04-5 CAPLUS

Benzamide, 4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-benzamide,CN 1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-cyclohexyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN

461021-06-7 CAPLUS
Pyrrolidine, 1-[4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-CN dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]benzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

461021-14-7 CAPLUS RN

Benzamide, 4-[4-[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropy1]-2,5-dioxo-CN 1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-(2-hydroxyethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

HC1

RN 461021-18-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[[4-[4-(hydroxymethyl)phenoxy]phenyl]methyl]-3-[(1R)-1-hydroxy-2-methylpropyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline I-Pr & R & N & OH \\ O & Bu-n & OH \\ \end{array}$$

RN 461022-95-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[(4-phenoxyphenyl)methyl]-, hydrochloride (1:1), (3R)- (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461022-99-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(4-fluorophenoxy)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-01-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[[4-(4-chlorophenoxy)phenyl]methyl]-3-[(R)-cyclohexylhydroxymethyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-02-9 CAPLUS

CN Benzonitrile, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 461023-03-0 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-04-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[(6-methyl-3-pyridinyl)oxy]phenyl]methyl]-, dihydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HCl

RN 461023-05-2 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(1-methylethyl)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-06-3 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[4-(methylsulfonyl)phenoxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-07-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[(tetrahydro-2H-pyran-4-yl)oxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 461023-08-5 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 9-[(4-benzoylphenyl)methyl]-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-09-6 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(hydroxyphenylmethyl)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 461023-17-6 CAPLUS

CN Methanesulfonamide, N-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-N- (methylsulfonyl)-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-22-3 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 461023-23-4 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-24-5 CAPLUS

CN Benzenesulfonamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-25-6 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[(6-methyl-1-oxido-3-pyridinyl)oxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-26-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(4-hydroxyphenoxy)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-39-2 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(4-methoxyphenoxy)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 461023-42-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(3-methoxyphenoxy)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-44-9 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-50-7 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-[2-(dimethylamino)ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HC1

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NMe₂

RN 461023-54-1 CAPLUS

CN Morpholine, 4-[4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]benzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-57-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[(1-oxido-3-pyridinyl)oxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-59-6 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-64-3 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-[(4-methoxyphenyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 461023-65-4 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-(3-methoxypropyl)-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c}
OH & H \\
R & R \\
R & N
\end{array}$$

$$O & Bu-n$$

$$O & CH2)3$$

$$O & OMe$$

● HCl

RN 461023-67-6 CAPLUS

CN Pyrrolidine, 1-[4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]benzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 461023-86-9 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-cyclohexyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-88-1 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-(2-hydroxyethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

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OH H
N
N
N
H
O
Bu-n

● HCl

PAGE 1-B

OH

RN 461023-90-5 CAPLUS

CN Methanesulfonamide, N-[4-[4-[(3S)-1-butyl-3-[(S)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-92-7 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 461023-93-8 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-[(4-methoxyphenyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-96-1 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-98-3 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-[(4-methoxyphenyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-99-4 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461024-00-0 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 461024-01-1 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline & H & N \\ \hline & N \\ O & Pr-n \\ \end{array}$$
 NHMe

● HCl

RN 461024-03-3 CAPLUS

CN Benzamide, 4-[[(3R)-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-[(4-methoxyphenyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461024-04-4 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461024-06-6 CAPLUS

CN Benzamide, 4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-[(4-methoxyphenyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461024-08-8 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 461024-42-0 CAPLUS

CN Propanamide, N-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-2-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461024-43-1 CAPLUS

CN Acetamide, N-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-2-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461024-44-2 CAPLUS

CN Benzeneacetamide, N-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461024-45-3 CAPLUS

CN Benzeneacetamide, N-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-4-fluoro-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461024-46-4 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]benzoyl]amino]-, methyl ester, monohydrochloride (9CI) (CA INDEX NAME)

RN 461024-47-5 CAPLUS

CN Benzoic acid, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-, (4-methoxyphenyl)methyl ester, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461024-49-7 CAPLUS

CN Benzoic acid, 4-[4-[[(3S)-1-butyl-3-[(S)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 461024-54-4 CAPLUS

CN Benzamide, 4-[4-[[(3S)-1-butyl-3-(hydroxymethyl)-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461024-60-2 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-[(4-methoxyphenyl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 461024-61-3 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-(phenylmethyl)-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461024-62-4 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-(2-methoxyethyl)-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 461024-63-5 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-(2-pyridinylmethyl)-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, dihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HC1

RN 461024-64-6 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-(3-pyridinylmethyl)-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

RN 461024-69-1 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-hydroxy-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461036-49-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[4-(methylsulfinyl)phenoxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 461441-44-1 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline i-Pr & R & R & N \\ O & Bu-n & O \end{array}$$

● HCl

RN 461441-45-2 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(4-methylphenoxy)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461441-46-3 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[[(4-methoxyphenyl)methyl]amino]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461441-56-5 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-methyl-N-[2-(2-pyridinyl)ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HC1

RN 461441-57-6 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[4-(hydroxymethyl)phenoxy]phenyl]methyl]-, (3R)- (CA INDEX NAME)

RN 461441-58-7 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline R & R & \\ \hline N & \\ O & Bu-n \end{array}$$

● HCl

RN 461441-60-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(4-methoxyphenoxy)phenyl]methyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 461441-61-2 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(3-methoxyphenoxy)phenyl]methyl]-, (3R)- (CA INDEX NAME)

RN 461441-62-3 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[[4-(4-fluorophenoxy)phenyl]methyl]-3-[(1R)-1-hydroxy-2-methylpropyl]-, (3R)-(CA INDEX NAME)

Absolute stereochemistry.

RN 461441-63-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[[4-(4-chlorophenoxy)phenyl]methyl]-3-[(1R)-1-hydroxy-2-methylpropyl]-, (3R)-(CA INDEX NAME)

Absolute stereochemistry.

RN 461441-64-5 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 9-[(4-benzoylphenyl)methyl]-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-, (3R)- (CA INDEX NAME)

$$\begin{array}{c|c} OH & H & O \\ \hline i-Pr & R & R & N \\ O & Bu-n & O \end{array}$$

RN 461441-65-6 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(hydroxyphenylmethyl)phenyl]methyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 461441-66-7 CAPLUS

CN Morpholine, 4-[4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 461441-67-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[(6-methyl-3-pyridinyl)oxy]phenyl]methyl]-, (3R)- (CA INDEX NAME)

RN 461441-68-9 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[(1-oxido-3-pyridinyl)oxy]phenyl]methyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 461441-69-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[(4-hydroxy-1-piperidinyl)methyl]phenyl]methyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 461441-72-5 CAPLUS

CN Benzenesulfonamide, 4-[4-[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

RN 461441-73-6 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[4-(methylthio)phenoxy]phenyl]methyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 461441-74-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[4-(methylsulfonyl)phenoxy]phenyl]methyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 461441-75-8 CAPLUS

CN Benzonitrile, 4-[4-[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

RN 461441-76-9 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(phenylthio)phenyl]methyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 461441-81-6 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[(6-methyl-1-oxido-3-pyridinyl)oxy]phenyl]methyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 461441-82-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropy1]-9-[[4-(4-hydroxyphenoxy)pheny1]methyl]-, (3R)- (CA INDEX NAME)

RN 461441-90-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[4-(methylsulfinyl)phenoxy]phenyl]methyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O & O \\ \hline I-Pr & R & R & N & \\ H & N & O & \\ O & Bu-n & O & \\ \end{array}$$

RN 461441-93-0 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

Absolute stereochemistry.

RN 461441-94-1 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl- (CA INDEX NAME)

$$\begin{array}{c|c} OH & H & O \\ \hline \\ i-Pr & R & \\ H & N & \\ O & Bu-n & O \end{array}$$
 NHMe

RN 461442-01-3 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-[2-(dimethylamino)ethyl]- (CA INDEX NAME)

Absolute stereochemistry.

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__NMe2

RN 461442-02-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(3-pyridinyloxy)phenyl]methyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 461442-03-5 CAPLUS

CN Benzoic acid, 4-[4-[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline i-Pr & R & R & N \\ O & Bu-n & O \end{array}$$

RN 461442-04-6 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(4-methylphenoxy)phenyl]methyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 461442-08-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[[4-(cyclohexyloxy)phenyl]methyl]-3-[(1R)-1-hydroxy-2-methylpropyl]-, (3R)-(CA INDEX NAME)

Absolute stereochemistry.

RN 461442-09-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[(tetrahydro-2H-pyran-4-yl)oxy]phenyl]methyl]-, (3R)-(CA INDEX NAME)

RN 461442-10-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[[(4-methoxyphenyl)methyl]amino]phenyl]methyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 461442-11-5 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-cyclohexyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 461442-12-6 CAPLUS

CN Pyrrolidine, 1-[4-[4-[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]benzoyl]- (9CI) (CA INDEX NAME)

RN 461442-16-0 CAPLUS

CN Benzamide, 4-[4-[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-(2-hydroxyethyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-05-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[(4-phenoxyphenyl)methyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-07-2 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(4-fluorophenoxy)phenyl]methyl]-, (3R)-(CA INDEX NAME)

RN 461443-08-3 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[[4-(4-chlorophenoxy)phenyl]methyl]-3-[(R)-cyclohexylhydroxymethyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-09-4 CAPLUS

CN Benzonitrile, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-10-7 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]- (CA INDEX NAME)

RN 461443-11-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[(6-methyl-3-pyridinyl)oxy]phenyl]methyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-12-9 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(1-methylethyl)phenyl]methyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-13-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[4-(methylsulfinyl)phenoxy]phenyl]methyl]-, (3R)- (CA INDEX NAME)

RN 461443-14-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[(tetrahydro-2H-pyran-4-yl)oxy]phenyl]methyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-15-2 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 9-[(4-benzoylphenyl)methyl]-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-16-3 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(hydroxyphenylmethyl)phenyl]methyl]-, (3R)-(CA INDEX NAME)

RN 461443-24-3 CAPLUS

CN Methanesulfonamide, N-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-N- (methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-29-8 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-30-1 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

RN 461443-31-2 CAPLUS

CN Benzenesulfonamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-32-3 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[(6-methyl-1-oxido-3-pyridinyl)oxy]phenyl]methyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-33-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(4-hydroxyphenoxy)phenyl]methyl]-, (3R)-(CA INDEX NAME)

RN 461443-38-9 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(4-methoxyphenoxy)phenyl]methyl]-, (3R)-(CA INDEX NAME)

Absolute stereochemistry.

RN 461443-39-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(3-methoxyphenoxy)phenyl]methyl]-, (3R)-(CA INDEX NAME)

Absolute stereochemistry.

RN 461443-40-3 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N,N-dimethyl- (CA INDEX NAME)

RN 461443-45-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[4-(methylsulfonyl)phenoxy]phenyl]methyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-46-9 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-[2-(dimethylamino)ethyl]- (CA INDEX NAME)

Absolute stereochemistry.

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NMe₂

RN 461443-50-5 CAPLUS

CN Morpholine, 4-[4-[4-[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-

dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-53-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[(1-oxido-3-pyridinyl)oxy]phenyl]methyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-55-0 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-59-4 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

RN 461443-60-7 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-[(4-methoxyphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-61-8 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-(3-methoxypropyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-62-9 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-methyl-N-[2-(2-pyridinyl)ethyl]-(CA INDEX NAME)

RN 461443-63-0 CAPLUS

CN Pyrrolidine, 1-[4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-73-2 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-cyclohexyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-75-4 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-(2-hydroxyethyl)- (CA INDEX NAME)

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ОН

RN 461443-76-5 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3S)-1-butyl-3-[(S)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-78-7 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-79-8 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-[(4-yl)m

methoxyphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-81-2 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-(CA INDEX NAME)

Absolute stereochemistry.

RN 461443-82-3 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-84-5 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-[(4-methoxyphenyl)methyl]- (CA INDEX NAME)

RN 461443-85-6 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-87-8 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-89-0 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl- (CA INDEX NAME)

$$\begin{array}{c|c} OH & H & O \\ \hline i-Pr & R & R \\ \hline & N & N \\ \hline & O & Pr-n \end{array}$$
 NHMe

RN 461443-93-6 CAPLUS

CN Benzamide, 4-[[(3R)-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-[(4-methoxyphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-95-8 CAPLUS

CN Benzamide, 4-[4-[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 461443-98-1 CAPLUS

CN Benzamide, 4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-[(4-methoxyphenyl)methyl]- (CA INDEX NAME)

RN 461444-02-0 CAPLUS

CN Benzoic acid, 4-[4-[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

Absolute stereochemistry.

RN 461444-04-2 CAPLUS

CN Benzoic acid, 4-[4-[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.

RN 461444-29-1 CAPLUS

CN Propanamide, N-[4-[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-2-methyl- (CA INDEX NAME)

RN 461444-30-4 CAPLUS

CN Acetamide, N-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-2-methoxy- (CA INDEX NAME)

Absolute stereochemistry.

RN 461444-31-5 CAPLUS

CN Benzeneacetamide, N-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 461444-32-6 CAPLUS

CN Benzeneacetamide, N-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-4-fluoro- (CA INDEX NAME)

RN 461444-33-7 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]benzoyl]amino]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.

RN 461444-34-8 CAPLUS

CN Benzoic acid, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-, (4-methoxyphenyl)methyl ester (CA INDEX NAME)

Absolute stereochemistry.

RN 461444-36-0 CAPLUS

CN Benzoic acid, 4-[4-[[(3S)-1-butyl-3-[(S)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]- (CA INDEX NAME)

Absolute stereochemistry.

RN 461444-40-6 CAPLUS

CN Benzamide, 4-[4-[[(3S)-1-butyl-3-(hydroxymethyl)-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl- (CA INDEX NAME)

Absolute stereochemistry.

HO S NHMe
$$0$$
 NHMe

RN 461444-43-9 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-[(4-methoxyphenyl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 461444-44-0 CAPLUS

CN Benzamide, 4-[4-[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-(phenylmethyl)-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-(CA INDEX NAME)

Absolute stereochemistry.

RN 461444-45-1 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-(2-methoxyethyl)-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 461444-46-2 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-(2-pyridinylmethyl)-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-(CA INDEX NAME)

Absolute stereochemistry.

RN 461444-47-3 CAPLUS

CN Benzamide, 4-[4-[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-(3-R)-cyclohexylhydroxymethyl]

pyridinylmethyl)-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl (CA INDEX NAME)

Absolute stereochemistry.

RN 461444-50-8 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-hydroxy- (CA INDEX NAME)

Absolute stereochemistry.

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L20 ANSWER 58 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
     2002:736254 CAPLUS
AN
DN
     137:263064
     Preparation of triazaspiro[5.5]undecane derivatives as the active
TI
     ingredients useful in prevention or as remedy for HIV infection
IN
     Mitsuya, Hiroaki; Maeda, Kenji; Shibayama, Shiro; Takaoka, Yoshikazu
PA
     Ono Pharmaceutical Co., Ltd., Japan
     PCT Int. Appl., 680 pp.
SO
     CODEN: PIXXD2
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     Patent
     Japanese
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                        KIND DATE
                                        APPLICATION NO.
     PATENT NO.
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     WO 2002074769
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US 7285552
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OS
     MARPAT 137:263064
AΒ
     Title compds. [I; R1 = H, alkyl, alkenyl, alkynyl, COOH, SO2H, CONH2, CHO,
     heterocycle, aryl; R2 = alkyl, alkynyl; R3, R4 independently = H, alkyl,
     alkenyl, alkynyl, COOH, CONH2; R5 = H, alkyl, alkenyl, alkynyl],
     stereoisomers, quaternary ammonium salts thereof, N-oxides thereof and
     nontoxic salts of the same optionally combined with at least one
     preventive and/or remedy for HIV infection are prepared as preventives
     and/or remedies for HIV infection or preventives and/or remedies for AIDS
     caused by the infection. Thus, the title compound II:2HCl was prepared
     from N-(tert-butyloxycarbonyl)leucine, N-allyloxycarbonyl-4-piperidine,
     n-propylamine, and 3,5-dimethyl-1-phenyl-4-formyl-pyrazole via
     cyclization, on resin prepared from aminomethylated polystyrene
     hydrchloride.
     461019-79-4P 461023-63-2P 461024-09-9P
ΙT
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RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of triazaspiro[5.5]undecane derivs. as the active ingredients in prevention or remedy of HIV infection)

RN 461019-79-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-(phenylmethyl)-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c}
OH & O \\
I-Pr & R & N \\
H & N \\
O & Bu-n
\end{array}$$

RN 461023-63-2 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461024-09-9 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, methyl ester, monohydrochloride (9CI) (CA INDEX NAME)

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ΙT
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     343274-41-9P 343276-63-1P 343276-66-4P
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of triazaspiro[5.5]undecane derivs. as the active ingredients in prevention or remedy of HIV infection)

RN 342914-87-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-(phenylmethyl)-, (3S)-rel- (CA INDEX NAME)

Relative stereochemistry.

RN 343272-98-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[(4-phenoxyphenyl)methyl]-, hydrochloride (1:1), (3S)-(CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 343272-99-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1S)-1-hydroxy-2-methylpropyl]-9-[(4-phenoxyphenyl)methyl]-, hydrochloride (1:1), (3R)-(CA INDEX NAME)

RN 343274-41-9 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-(hydroxymethyl)-9-[(4-phenoxyphenyl)methyl]-, monohydrochloride, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 343276-63-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[(4-phenoxyphenyl)methyl]-, monohydrochloride, (3R)-rel-(9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-66-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(4-methylphenoxy)phenyl]methyl]-, monohydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HC1

RN 343276-67-5 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[[4-(cyclohexyloxy)phenyl]methyl]-3-[(1R)-1-hydroxy-2-methylpropyl]-, monohydrochloride, (3R)-rel-(9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-68-6 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[(tetrahydro-2H-pyran-4-yl)oxy]phenyl]methyl]-, monohydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 343276-69-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(3-pyridinyloxy)phenyl]methyl]-, dihydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

●2 HC1

RN 343276-70-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(1-methylethyl)phenyl]methyl]-, monohydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-73-3 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-76-6 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[(4-phenoxyphenyl)methyl]-, monohydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-78-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(1-methylethyl)phenyl]methyl]-, monohydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 343276-79-9 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[(6-methyl-3-pyridinyl)oxy]phenyl]methyl]-, dihydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

●2 HC1

RN 343276-81-3 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(4-methoxyphenoxy)phenyl]methyl]-, monohydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-82-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(4-fluorophenoxy)phenyl]methyl]-, monohydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-83-5 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-86-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-(2-butynyl)-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(1-methylethyl)phenyl]methyl]-, monohydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 343276-87-9 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-(2-butynyl)-3-[(R)-cyclohexylhydroxymethyl]-9-[(4-phenoxyphenyl)methyl]-, monohydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-88-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-(2-butyny1)-3-[(R)-cyclohexylhydroxymethy1]-9-[[4-(4-methylphenoxy)pheny1]methy1]-, monohydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 343276-92-6 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-(2-butynyl)-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(4-methylphenoxy)phenyl]methyl]-, monohydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-94-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-(2-butyny1)-3-[(1R)-1-hydroxy-2-methylpropy1]-9-[[4-(1-methylethyl)phenyl]methyl]-, monohydrochloride,

(3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-95-9 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-(2-butynyl)-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[(4-phenoxyphenyl)methyl]-, monohydrochloride, (3R)-rel-(9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-97-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[(4-phenoxyphenyl)methyl]-, monohydrochloride, (3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 343277-02-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1S)-1-hydroxy-2-methylpropyl]-9-[(4-phenoxyphenyl)methyl]-, hydrochloride (1:1), (3S)-(CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 343277-04-3 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3S)-1-butyl-3-[(1S)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 343277-06-5 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[(4-phenoxyphenyl)methyl]-, hydrochloride (1:1), (3R)-(CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 343277-08-7 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 343277-12-3 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-1-butyl-3-[(1S)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 343277-16-7 CAPLUS

CN Methanesulfonamide, N-[4-[4-[((3S)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461018-99-5 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxyethyl]-9-[(4-phenoxyphenyl)methyl]-, monohydrochloride, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461019-99-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(4-methoxyphenoxy)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline i-Pr & R & N \\ \hline O & Bu-n \\ \end{array}$$

● HCl

RN 461020-01-9 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(3-methoxyphenoxy)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline i-Pr & R & R & N \\ O & Bu-n & O \end{array}$$

HC1

RN 461020-03-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[[4-(4-fluorophenoxy)phenyl]methyl]-3-[(1R)-1-hydroxy-2-methylpropyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 461020-05-3 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[[4-(4-chlorophenoxy)phenyl]methyl]-3-[(1R)-1-hydroxy-2-methylpropyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461020-07-5 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 9-[(4-benzoylphenyl)methyl]-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

461020-09-7 CAPLUS RN

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2methylpropyl]-9-[[4-(hydroxyphenylmethyl)phenyl]methyl]-, monohydrochloride, (3R) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

461020-11-1 CAPLUS Morpholine, 4-[4-[4-[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropy1]-2,5-CN dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]benzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461020-13-3 CAPLUS

1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-CN methylpropy1]-9-[[4-[(6-methyl-3-pyridinyl)oxy]phenyl]methyl]-, dihydrochloride, (3R) - (9CI) (CA INDEX NAME)

●2 HC1

RN 461020-15-5 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[(1-oxido-3-pyridinyl)oxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461020-17-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[(4-hydroxy-1-piperidinyl)methyl]phenyl]methyl]-, dihydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HC1

RN 461020-23-5 CAPLUS

CN Benzenesulfonamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O & O & O \\ \hline & H & N & & & \\ & & & & \\ & & & & \\ O & Bu-n & & O & \\ \end{array}$$

HC1

RN 461020-25-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[4-(methylthio)phenoxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461020-27-9 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[4-(methylsulfonyl)phenoxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 461020-29-1 CAPLUS

CN Benzonitrile, 4-[4-[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461020-31-5 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(phenylthio)phenyl]methyl]-, monohydrochloride, (3R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline i-Pr & R & R \\ H & N & \\ O & Bu-n & \\ \end{array}$$
 SPh

RN 461020-41-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[(6-methyl-1-oxido-3-pyridinyl)oxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461020-43-9 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(4-hydroxyphenoxy)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461020-60-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[4-(methylsulfinyl)phenoxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

HC1

RN 461020-66-6 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461020-68-8 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline & I-Pr & R & \\ & & N & \\ O & Bu-n & O \end{array}$$
 NHMe

RN 461020-82-6 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-[2-(dimethylamino)ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HC1

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__NMe2

RN 461020-84-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(3-pyridinyloxy)phenyl]methyl]-, dihydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HC1

RN 461020-86-0 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, dihydrochloride (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} OH & H & O \\ \hline i-Pr & R & R & N \\ O & Bu-n & O \end{array}$$

●2 HC1

RN 461020-88-2 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(4-methylphenoxy)phenyl]methyl]-, dihydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HC1

RN 461020-98-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[[4-(cyclohexyloxy)phenyl]methyl]-3-[(1R)-1-hydroxy-2-methylpropyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 461021-00-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[(tetrahydro-2H-pyran-4-yl)oxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461021-02-3 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-[(4-methoxyphenyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461021-04-5 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-cyclohexyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN

461021-06-7 CAPLUS
Pyrrolidine, 1-[4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-CN dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]benzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461021-14-7 CAPLUS

Benzamide, 4-[4-[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-CN 1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-(2-hydroxyethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

HC1

RN 461021-18-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[[4-[4-(hydroxymethyl)phenoxy]phenyl]methyl]-3-[(1R)-1-hydroxy-2-methylpropyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline i-Pr & R & N & OH \\ O & Bu-n & O \end{array}$$

RN 461022-95-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[(4-phenoxyphenyl)methyl]-, hydrochloride (1:1), (3R)- (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461022-99-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(4-fluorophenoxy)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-01-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[[4-(4-chlorophenoxy)phenyl]methyl]-3-[(R)-cyclohexylhydroxymethyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-02-9 CAPLUS

CN Benzonitrile, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 461023-03-0 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-04-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[(6-methyl-3-pyridinyl)oxy]phenyl]methyl]-, dihydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HC1

RN 461023-05-2 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(1-methylethyl)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-06-3 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[4-(methylsulfonyl)phenoxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-07-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[(tetrahydro-2H-pyran-4-yl)oxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 461023-08-5 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 9-[(4-benzoylphenyl)methyl]-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-09-6 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(hydroxyphenylmethyl)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 461023-17-6 CAPLUS

CN Methanesulfonamide, N-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-N- (methylsulfonyl)-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-22-3 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 461023-23-4 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-24-5 CAPLUS

CN Benzenesulfonamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 461023-25-6 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[(6-methyl-1-oxido-3-pyridinyl)oxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-26-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(4-hydroxyphenoxy)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-39-2 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(4-methoxyphenoxy)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 461023-42-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(3-methoxyphenoxy)phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-44-9 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 461023-50-7 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-[2-(dimethylamino)ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HC1

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NMe₂

RN 461023-54-1 CAPLUS

CN Morpholine, 4-[4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]benzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-57-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[(1-oxido-3-pyridinyl)oxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-59-6 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-64-3 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-[(4-methoxyphenyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 461023-65-4 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-(3-methoxypropyl)-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-66-5 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-methyl-N-[2-(2-pyridinyl)ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 461023-67-6 CAPLUS

CN Pyrrolidine, 1-[4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]benzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-86-9 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-cyclohexyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 461023-88-1 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-(2-hydroxyethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

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OH

RN 461023-89-2 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[4-(hydroxymethyl)phenoxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RN 461023-90-5 CAPLUS

CN Methanesulfonamide, N-[4-[4-[(3S)-1-butyl-3-[(S)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-92-7 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline R & R & N \\ \hline O & Bu-n & O \\ \end{array}$$
 NHMe

● HCl

RN 461023-93-8 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-y1)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-y1]methyl]-N-[(4-methoxyphenyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-95-0 CAPLUS

CN Benzoic acid, 4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

HC1

RN 461023-96-1 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-1-butyl-3-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 461023-98-3 CAPLUS

CN Benzamide, 4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-[(4-methoxyphenyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461023-99-4 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 461024-00-0 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclopentylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461024-01-1 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461024-03-3 CAPLUS

CN Benzamide, 4-[[(3R)-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-[(4-methoxyphenyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 461024-04-4 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461024-06-6 CAPLUS

CN Benzamide, 4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-N-[(4-methoxyphenyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 461024-08-8 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461024-42-0 CAPLUS

CN Propanamide, N-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-2-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 461024-43-1 CAPLUS

CN Acetamide, N-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-2-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461024-44-2 CAPLUS

CN Benzeneacetamide, N-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461024-45-3 CAPLUS

CN Benzeneacetamide, N-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenyl]-4-fluoro-, monohydrochloride (9CI) (CA INDEX NAME)

RN 461024-46-4 CAPLUS

CN Benzoic acid, 4-[[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]benzoyl]amino]-, methyl ester, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461024-47-5 CAPLUS

CN Benzoic acid, 4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]-, (4-methoxyphenyl)methyl ester, monohydrochloride (9CI) (CA INDEX NAME)

RN 461024-49-7 CAPLUS

CN Benzoic acid, 4-[4-[(3S)-1-butyl-3-[(S)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ S & S & N \\ O & Bu-n \end{array}$$

● HCl

RN 461024-54-4 CAPLUS

CN Benzamide, 4-[4-[[(3S)-1-butyl-3-(hydroxymethyl)-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 461024-60-2 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-[(4-methoxyphenyl)methyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461024-61-3 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-(phenylmethyl)-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461024-62-4 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-1-(2-methoxyethyl)-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

RN 461024-63-5 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-(2-pyridinylmethyl)-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, dihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 HC1

RN 461024-64-6 CAPLUS

CN Benzamide, 4-[4-[[(3R)-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1-(3-pyridinylmethyl)-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-methyl-, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

RN 461024-69-1 CAPLUS

CN Benzamide, 4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-N-hydroxy-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 461036-49-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[4-(methylsulfinyl)phenoxy]phenyl]methyl]-, monohydrochloride, (3R)- (9CI) (CA INDEX NAME)

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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     Habashita, Hiromu; Hamano, Shinichi; Shibayam, Shiro; Takaoka, Yoshikazu
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OS
     MARPAT 135:46203
     Title compds. [I; R1 = H, aryl, arylalkyloxycarbonyl, alkenyloxycarbonyl,
     heterocyclylalkyl, alkyl, alkenyl, alkynyl; R2 = alkyl, alkynyl; R3 = H;
     R4 = alkyl; R5 = H, alkyl], stereoisomers, quaternary ammonium salts
     thereof, N-oxides thereof and nontoxic salts thereof, are prepared via solid
     phase synthesis using divinylbenzene-polystyrene or divinylbenzene-Rink
     resin. Title compds. I, having controlling effects of
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chemokines/chemokine receptors, are useful in preventing and/or treating
     various inflammatory diseases, asthma, atopic dermatitis, urticaria,
     allergic diseases, nephritis, nephropathy, hepatitis, arthritis,
     rheumatoid arthritis, etc. Thus, the title compound II·HCl was
     prepared and biol. tested.
     342910-70-7P 342910-71-8P 342912-16-7P
ΤТ
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     342914-17-4P 342914-18-5P 342914-19-6P
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     343277-12-3P 343277-16-7P 343277-19-0P
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES (Uses)
        (preparation and effect of triazaspiro[5.5]undecane derivs. as active
        ingredients in inflammatory disease therapy)
     342910-70-7 CAPLUS
RN
CN
     1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-
     methylpropyl]-9-[(4-phenoxyphenyl)methyl]-, (3S)- (CA INDEX NAME)
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Absolute stereochemistry.

RN 342910-71-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1S)-1-hydroxy-2-methylpropyl]-9-[(4-phenoxyphenyl)methyl]-, (3R)- (CA INDEX NAME)

RN 342912-16-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-(hydroxymethyl)-9-[(4-phenoxyphenyl)methyl]-, (3S)- (CA INDEX NAME)

Absolute stereochemistry.

RN 342914-12-9 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[(4-phenoxyphenyl)methyl]-, (3R)-rel- (CA INDEX NAME)

Relative stereochemistry.

RN 342914-15-2 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(4-methylphenoxy)phenyl]methyl]-, (3R)-rel- (CA INDEX NAME)

RN 342914-16-3 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[[4-(cyclohexyloxy)phenyl]methyl]-3-[(1R)-1-hydroxy-2-methylpropyl]-, (3R)-rel- (CA INDEX NAME)

Relative stereochemistry.

RN 342914-17-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[(tetrahydro-2H-pyran-4-yl)oxy]phenyl]methyl]-, (3R)-rel- (CA INDEX NAME)

Relative stereochemistry.

RN 342914-18-5 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(3-pyridinyloxy)phenyl]methyl]-, (3R)-rel- (CA INDEX NAME)

RN 342914-19-6 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(1-methylethyl)phenyl]methyl]-, (3R)-rel- (CA INDEX NAME)

Relative stereochemistry.

RN 342914-22-1 CAPLUS

CN Benzoic acid, 4-[4-[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, rel- (CA INDEX NAME)

Relative stereochemistry.

RN 342914-25-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[(4-phenoxyphenyl)methyl]-, (3R)-rel- (CA INDEX NAME)

RN 342914-27-6 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(1-methylethyl)phenyl]methyl]-, (3R)-rel-(CA INDEX NAME)

Relative stereochemistry.

RN 342914-28-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[(6-methyl-3-pyridinyl)oxy]phenyl]methyl]-, (3R)-rel- (CA INDEX NAME)

Relative stereochemistry.

RN 342914-30-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(4-methoxyphenoxy)phenyl]methyl]-, (3R)-rel- (CA INDEX NAME)

RN 342914-31-2 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(4-fluorophenoxy)phenyl]methyl]-, (3R)-rel-(CA INDEX NAME)

Relative stereochemistry.

RN 342914-32-3 CAPLUS

CN Methanesulfonamide, N-[4-[4-[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, rel-(CA INDEX NAME)

Relative stereochemistry.

RN 342914-35-6 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-(2-butyny1)-3-[(R)-cyclohexylhydroxymethy1]-9-[[4-(1-methylethyl)phenyl]methyl]-, (3R)-rel-(9CI) (CA INDEX NAME)

RN 342914-36-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-(2-butynyl)-3-[(R)-cyclohexylhydroxymethyl]-9-[(4-phenoxyphenyl)methyl]-, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 342914-37-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-(2-butynyl)-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(4-methylphenoxy)phenyl]methyl]-, (3R)-rel-(9CI) (CA INDEX NAME)

RN 342914-41-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-(2-butynyl)-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(4-methylphenoxy)phenyl]methyl]-, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 342914-43-6 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-(2-butynyl)-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(1-methylethyl)phenyl]methyl]-, (3R)-rel- (9CI) (CA INDEX NAME)

RN 342914-44-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-(2-butynyl)-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[(4-phenoxyphenyl)methyl]-, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 342914-46-9 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[(4-phenoxyphenyl)methyl]-, (3S)-rel- (CA INDEX NAME)

Relative stereochemistry.

RN 342914-51-6 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-buty1-3-[(1S)-1-hydroxy-2-

methylpropy1]-9-[(4-phenoxyphenyl)methyl]-, (3S)- (CA INDEX NAME)

Absolute stereochemistry.

RN 342914-53-8 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3S)-1-butyl-3-[(1S)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 342914-55-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[(4-phenoxyphenyl)methyl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

RN 342914-57-2 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]- (CA INDEX NAME)

RN 342914-61-8 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-1-butyl-3-[(1S)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 342914-65-2 CAPLUS

CN Methanesulfonamide, N-[4-[4-[(3S)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 342914-87-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-(phenylmethyl)-, (3S)-rel- (CA INDEX NAME)

RN 343272-98-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[(4-phenoxyphenyl)methyl]-, hydrochloride (1:1), (3S)-(CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 343272-99-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1S)-1-hydroxy-2-methylpropyl]-9-[(4-phenoxyphenyl)methyl]-, hydrochloride (1:1), (3R)-(CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 343274-41-9 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-(hydroxymethyl)-9-[(4-phenoxyphenyl)methyl]-, monohydrochloride, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 343276-63-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[(4-phenoxyphenyl)methyl]-, monohydrochloride, (3R)-rel-(9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-66-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(4-methylphenoxy)phenyl]methyl]-, monohydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-67-5 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[[4-(cyclohexyloxy)phenyl]methyl]-3-[(1R)-1-hydroxy-2-methylpropyl]-, monohydrochloride, (3R)-rel-(9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-68-6 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-[(tetrahydro-2H-pyran-4-yl)oxy]phenyl]methyl]-, monohydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-69-7 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(3-pyridinyloxy)phenyl]methyl]-, dihydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

●2 HC1

RN 343276-70-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(1-methylethyl)phenyl]methyl]-, monohydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-73-3 CAPLUS

CN Benzoic acid, 4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-76-6 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[(4-phenoxyphenyl)methyl]-, monohydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-78-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(1-methylethyl)phenyl]methyl]-, monohydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-79-9 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-[(6-methyl-3-pyridinyl)oxy]phenyl]methyl]-, dihydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

●2 HC1

RN 343276-81-3 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(4-methoxyphenoxy)phenyl]methyl]-, monohydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-82-4 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(4-fluorophenoxy)phenyl]methyl]-, monohydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-83-5 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-1-butyl-3-[(R)-cyclohexylhydroxymethyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-86-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-(2-butynyl)-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(1-methylethyl)phenyl]methyl]-, monohydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-87-9 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-(2-butynyl)-3-[(R)-cyclohexylhydroxymethyl]-9-[(4-phenoxyphenyl)methyl]-, monohydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

RN 343276-88-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-(2-butynyl)-3-[(R)-cyclohexylhydroxymethyl]-9-[[4-(4-methylphenoxy)phenyl]methyl]-, monohydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

HC1

RN 343276-92-6 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-(2-butynyl)-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(4-methylphenoxy)phenyl]methyl]-, monohydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

HC1

RN 343276-94-8 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-(2-butynyl)-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[[4-(1-methylethyl)phenyl]methyl]-, monohydrochloride, (3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343276-95-9 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-(2-butynyl)-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[(4-phenoxyphenyl)methyl]-, monohydrochloride, (3R)-rel-(9CI) (CA INDEX NAME)

RN 343276-97-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(R)-cyclohexylhydroxymethyl]-9-[(4-phenoxyphenyl)methyl]-, monohydrochloride, (3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 343277-02-1 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1S)-1-hydroxy-2-methylpropyl]-9-[(4-phenoxyphenyl)methyl]-, hydrochloride (1:1), (3S)-(CA INDEX NAME)

RN 343277-04-3 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3S)-1-butyl-3-[(1S)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 343277-06-5 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-9-[(4-phenoxyphenyl)methyl]-, hydrochloride (1:1), (3R)-(CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} OH & H & O \\ \hline i-Pr & R & R & N \\ \hline & & N & OPh \end{array}$$

● HCl

RN 343277-08-7 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 343277-12-3 CAPLUS

CN Methanesulfonamide, N-[4-[4-[[(3R)-1-butyl-3-[(1S)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 343277-16-7 CAPLUS

CN Methanesulfonamide, N-[4-[4-[(3S)-1-butyl-3-[(1R)-1-hydroxy-2-methylpropyl]-2,5-dioxo-1,4,9-triazaspiro[5.5]undec-9-yl]methyl]phenoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 343277-19-0 CAPLUS

CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-[(1R)-1-hydroxyethyl]-9-[(4-phenoxyphenyl)methyl]-, (3S)- (CA INDEX NAME)

Absolute stereochemistry.

RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/527,435

TOTAL SESSION 515.38

=> log y	
COST IN U.S. DOLLARS	SINCE FILE
	ENTRY
FULL ESTIMATED COST	323.47

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE
ENTRY
SESSION
-47.20
-47.20

STN INTERNATIONAL LOGOFF AT 23:55:48 ON 02 JAN 2008